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CITY OF SPRINGFIELD

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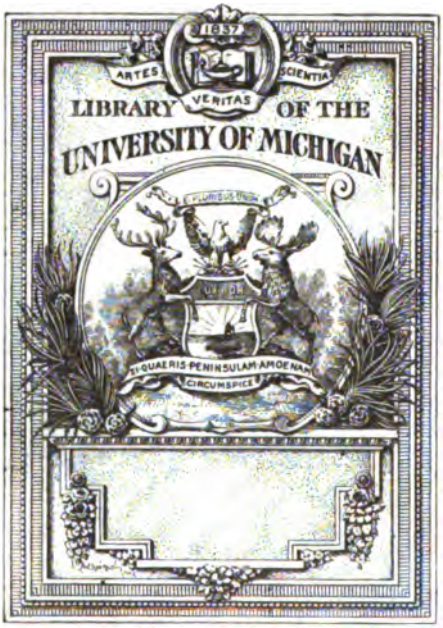

THE GIFT OF
City Clerk

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Commonwealth of Massachusetts

MUNICIPAL REGISTER

OF THE

CITY OF SPRINGFIELD

FOR

1914

CONTAINING

CITY OFFICERS AND COMMITTEES, MAYOR'S ADDRESS, REPORTS OF THE VARIOUS OFFICERS AND COMMITTEES; ALSO, THE RECEIPTS AND EXPENDITURES FOR THE FISCAL YEAR ENDING NOVEMBER 30, 1913.

PRESS OF
SPRINGFIELD PRINTING AND BINDING COMPANY,
SPRINGFIELD, MASS.

1914.

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CONTENTS.

	PAGE
City Officers, 1914	9–16
City Officers, 1852-1913	807–827
Mayor's Address	17–32
Ordinances, 1913	771–796
Taxes	797–801
Valuation of Property	802–805
REPORTS OF DEPARTMENTS.	
Auditor	717–748
Board of Health	563–624
Building Department	629–646
Burial Agent	557–558
Chief of Police	269–304
Clerk	671–674
David P. Smith Fund	757–760
Fire Alarm Telegraph	261
Fire Commission	213–260
Inspector of Animals	625–627
Jury List	675–702
Liquor License Commission	661–670
Overseers of the Poor	539–551
Park Commissioners	651–660
Police Commissioners	263–304
Property Committee	703–715
Schools	33–211
Agent	135–160
Superintendent	63–77
Sealer of Weights and Measures and Inspector of Coal	559–562
Sinking Fund Commission	749–756
Solicitor	647–649
State and Military Aid	553–555
Streets and Engineering	363–537
Superintendent	363–390
Engineer	391–402
Streets	403–448
Sewers	449–520
Ashes and Garbage	521–524
Lighting	525–532
Forestry	533–537
Treasurer	761–769
Water Commissioners	305–361
Water Registrar	309–322
Superintendent of Water Works	323–327
Chief Engineer	328–332
Appendix	333–361

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CITY OFFICERS

FOR 1914

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CITY OFFICERS, 1914

Mayor

JOHN A. DENISON.

Aldermen

FRANK E. STACY, President

Ward 1: GEORGE S. COOK
Ward 2: ALBERT P. HARE
Ward 3: GEORGE H. McCLEAN
Ward 4: HARRY G. WEBSTER
Ward 5: ROBERT N. INGERSOLL
Ward 6: FRANK E. STACY
Ward 7: JULIAN R. ALBEE
Ward 8: GILES BLAGUE

ELIJAH A. NEWELL, Clerk

Common Councilmen

EDWARD T. BROADHURST, President

Ward 1: Louis G. Erickson, Lawrence P. Griffin
Ward 2: William H. Grady, John H. Morgan, John R. Doyle
Ward 3: Nelson W. Haskell, Fred A. Morrill
Ward 4: Robert P. Marsh, Albert D. Shaw
Ward 5: William Foster, Harold A. Wheat
Ward 6: Henry Martens, John J. O'Hare
Ward 7: Albert B. Franklin, Jr., Edward T. Broadhurst
Ward 8: Clinton W. Cowles, George A. Lanciaux, William B. Sleigh

George J. Clark, Clerk

STANDING COMMITTEES OF THE CITY COUNCIL.

COMMITTEES OF THE BOARD OF ALDERMEN.

Enrollment—Aldermen McClean, Cook and Albee.

Elections and Returns—Aldermen Webster, McClean and Cook.

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Ordinances—Aldermen Blague, Cook and Hare.

Poles and Wires—Aldermen Hare, Albee and Ingersoll.

Itinerant Vendors' Licenses—The Mayor and Aldermen Blague and McClean.

State and Military Aid—The Mayor and Aldermen Albee and Webster.

Rules of the Road—Aldermen Cook, McClean and Blague.

Signs—Aldermen Hare and Albee.

COMMITTEES OF THE COMMON COUNCIL.

Ordinances—Councilmen Shaw, Foster and Doyle.

Enrollment—Councilmen Morrill, Cowles and Griffin.

Elections and Returns—Councilmen Foster, O'Hare and Doyle.

JOINT STANDING COMMITTEES.

Finance—The Mayor, Alderman McClean, the President of the Common Council, and Councilmen Franklin and Wheat.

City Property—Aldermen Cook and Blague, Councilmen Lanciaux, Martens and Grady.

Fire Department—Aldermen Cook and Webster, Councilmen Erickson, Shaw and Morrill.

Pauper Department—Aldermen Albee and Ingersoll, Councilmen Cowles, Foster and O'Hare.

Printing—The Mayor, President of the Common Council and Councilman Sleigh.

Board on Claims—The Mayor, Alderman Hare and the President of the Common Council.

Supervisors of the Department of Streets and Engineering—The Mayor, Alderman Webster and Councilman Marsh.

Firearms—Aldermen Albee and Hare, Councilmen Haskell, Morgan and Griffin.

Revision of Building Ordinance—Aldermen Stacy and Hare, Councilmen Erickson, Franklin and Morgan.

Tenement House Act—Aldermen Stacy and Hare, Councilmen Martens, Haskell and Griffin.

Mayor's Messages—Aldermen Blague and Webster, Councilmen Shaw, Morrill and O'Hare.

City Realty—Aldermen Hare and Blague, Councilmen Sleigh, Erickson and Morgan.

Revision of Ordinances—Aldermen Ingersoll and Cook, Councilmen Wheat, Morrill and Haskell.

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CITY CLERK—Elijah A. Newell.

ASSISTANT CITY CLERK—Annie H. Hawkes.

CLERICAL ASSISTANTS—Cora B. Haskell, Carrie M. Riley, Clifford F. Smith, Ruth N. Ody, Lillian C. Hummel, Ida M. Sword.

CITY TREASURER—Eliphalet T. Tifft.

TREASURER'S DEPUTY—John P. Bishop.

CLERICAL ASSISTANTS—George W. Rice, Jr., Margaret E. McCaughan, Agnes Pope, Mildred J. Ward.

AUDITOR OF ACCOUNTS—William G. McIntyre.

CLERICAL ASSISTANTS—Alice E. Hathaway, Isabelle Hicks, Gertrude Rowland.

CITY COLLECTOR—Charles A. Frazer.

COLLECTOR'S CLERK—Ralph L. Munn.

CLERICAL ASSISTANTS—Fannie M. Brown, Grace K. Burgin, Rena E. Bradley, Frederic W. Day, Leone C. Johnson.

ASSESSORS—Frank A. Lawton, George B. Smith, Albert C. Lane.

ASSISTANT ASSESSORS—Walter A. Parrish, William G. Ryan, Charles E. Murray, John W. Holton, Arthur S. Burt, Benjamin R. Franklin, William J. Murphy, Bion T. Wheeler, Fred H. Dumbleton, Abraham Cohn, Frank W. Lawrence.

OVERSEERS OF THE POOR—The Mayor, Dr. Sylvester E. Ryan, Arthur A. Call, Henry P. Norris, William R. Thacker.

AGENT—Edward I. White.

CLERICAL ASSISTANTS—Jennie S. Lombard, Marjorie W. Ward.

SUPERINTENDENT OF ALMSHOUSE—Lyman W. Sexton.

CITY PHYSICIAN—Dr. Sylvester E. Ryan.

CITY SOLICITOR—Scott Adams.

ASSISTANT CITY SOLICITOR—Josiah Dearborn.

CITY PROSECUTING ATTORNEY—Charles J. Weston.

MAYOR'S CLERK—Elizabeth H. Clark.

SUPERINTENDENT OF MUNICIPAL GROUP—Stephen P. Burns.

ASSISTANT SUPERINTENDENT—Geo. H. Steinkuhler.

CITY MESSENGER—James H. Lay.

SUPERINTENDENT OF THE DEPARTMENT OF STREETS AND ENGINEERING—Fred H. Clark.

DEPUTY SUPERINTENDENT OF STREETS—Arthur H. Woodward.

DEPUTY SUPERINTENDENT OF SEWERS—Howard O. Buck.

DEPUTY SUPERINTENDENT OF STREET LIGHTING—William E. Hodge.

DEPUTY CITY ENGINEER—Charles M. Slocum.

DEPUTY CITY FORESTER—J. Alden Davis.

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DEPUTY SUPERINTENDENT OF ASHES AND GARBAGE—Edward G. Barnes.

CLERK AND BOOKKEEPER—Charles G. Neidel.

BOARD OF HEALTH—Edgar H. Guild, Health Physician, Dr. T. F. Rearden and Philip V. Erard.

AGENT OF THE BOARD OF HEALTH—William L. Young.

CLERK FOR AGENT—Grace E. Warren.

SANITARY INSPECTORS—Jacob R. Sackett, Frank A. Murray, Henry Wright, Jr., Alger P. Blaine, Wm. F. Boyle and Daniel J. Mahoney.

SMOKE INSPECTOR—Dustin L. Tice.

SUPERINTENDENT OF SCHOOLS—James H. Van Sickle.

SUPERINTENDENT'S CLERK—Fred L. Ward.

SCHOOLHOUSE AGENT—Hiram L. Dorman.

SCHOOL COMMITTEE—The Mayor; at large, Newton M. Hall; Ward One, Wayland V. James; Ward Two, Henry L. Hirsch; Ward Three, Ralph B. Ober; Ward Four, Leona May Peirce; Ward Five, Florence Clark; Ward Six, Frederick Harris; Ward Seven, *Francis M. Bennitt; Ward Eight, George H. Howard.

TRUANT OFFICER—John A. Parker.

ASSISTANT TRUANT OFFICERS—Harry A. Killmer, Burdette R. Madison.

KEEPER OF THE LOCKUP—Charles M. Wright.

SEALER OF WEIGHTS AND MEASURES—James L. Bowen.

DEPUTY SEALER OF WEIGHTS AND MEASURES—Adelbert R. Geer.

INSPECTOR OF MILK—Stephen C. Downs.

ASSISTANT INSPECTOR OF MILK—James A. Gamble.

INSPECTOR OF VINEGAR—Stephen C. Downs.

INSPECTOR OF ANIMALS—Harry Lukes.

INSPECTOR OF PETROLEUM—H. Moseley Holcomb.

INSPECTOR OF SOLDIERS' AND SAILORS' GRAVES—Dwight M. Chapman.

BUILDING COMMISSIONER—Fred W. Lumis.

BUILDING INSPECTORS—Daniel W. Campbell, Leigh Ferry Morgan.

PLUMBING INSPECTOR—Frank W. Tower.

ASSISTANT PLUMBING INSPECTOR—Ernest G. Bates.

INSPECTOR OF GAS PIPING—Fred Bicknell.

INSPECTOR OF WIRES WITHIN BUILDINGS—Allen W. Hopkins.

ASSISTANT INSPECTORS OF WIRES WITHIN BUILDINGS—John F. Shea, Wilbur Chauncey Field.

CLERICAL ASSISTANT—Alice Ferguson.

---

*Deceased.

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BOARD OF APPEAL—George C. Gardner, Thomas O'Brien, James F. Walls.

INSPECTOR OF COAL AND COKE—James L. Bowen.

FISH WARDEN—James P. Hatch.

WATER COMMISSIONERS—The Mayor, Fred R. Brown, Herbert C. Puffer.

CHIEF ENGINEER OF WATER WORKS—Elbert E. Lochridge.

SUPERINTENDENT OF WATER WORKS—A. E. Martin.

WATER REGISTRAR—Alfred R. Hathaway.

BOARD OF PUBLIC WORKS—Claudius C. Margerum, Frank G. Tobey, Napoleon E. Russell.

BOARD OF REGISTRARS OF VOTERS—Orthello K. Merrill, William W. Bartlett, Frederick W. Brennan, E. A. Newell, Clerk.

ASSISTANT REGISTRARS OF VOTERS—Warren P. Underwood, Arthur P. Cook.

CLERICAL ASSISTANT—Edith M. Ware.

FIRE COMMISSIONERS—Edward A. McClintock, Patrick H. Quinn, Frank H. Wesson, Octave A. LaRiviere, George S. Cook.

ENGINEERS OF THE FIRE DEPARTMENT—Chief, William H. Daggett; Deputy Chief, Everett A. Kimball; District Chiefs, Burton Steere, John R. Graves; Superintendent of Fire Alarm, Samuel L. Wheeler.

PARK COMMISSIONERS—Daniel J. Marsh, Stanhope E. Blunt, Nathan D. Bill, Theodor Geisel, Dr. Andrew J. Flanagan.

HONORARY PARK COMMISSIONER—Everett H. Barney.

PARK SUPERINTENDENT—Charles E. Ladd.

COMMISSIONERS OF SINKING FUNDS—Robert O. Morris, A. B. Wallace, A. Willard Damon.

LICENSE COMMISSIONERS—George G. Tait, John H. Clune, Hugh J. Donnelly.

MUNICIPAL TRANSPORTATION COMMISSION—Mayor, ex officio; Col. Stanhope E. Blunt, Hon. Marcus P. Knowlton, Edward P. Butts, Harry G. Webster, Edward T. Broadhurst.

CITY PLANNING COMMISSION—John A. Denison, Mayor, ex officio; Charles H. Parsons, Stanford L. Haynes, Kurt R. Sternberg, William M. Stevenson, J. Frank Drake, Frank E. Stacy, Edward T. Broadhurst.

POLICE DEPARTMENT.

POLICE COMMISSIONERS—Joseph G. Merrick, James M. Gill, Charles F. Spellman.

CHIEF OF POLICE—William J. Quilty.

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DEPUTY CHIEF OF POLICE—Charles M. Wright.

CAPTAINS OF THE WATCH—John J. O'Malley, Henry M. Perkins.

LIEUTENANTS—David J. Manning, Charles A. Wade.

CHIEF INSPECTOR—John H. Boyle.

INSPECTORS—John St. Ledger, Martin P. Costello, James T. Raiche, James M. Daly, Frank W. Quilty, George H. Norris, Walter L. Henderson, Edward J. Rathbun, James C. Burke.

SERGEANTS OF POLICE—John Hall, E. Frank Goodwin, Patrick J. McCallin, Patrick H. McDonald, Michael J. O'Brien, Frederick L. Thayer, Edgar A. Littlefield.

POLICE MATRONS—Maria E. Holley, Mrs. Delia E. Flanagan.

CLERK—C. Pantasides.

POLICE OFFICERS.

NIGHT AND DAY WATCHMEN AND POLICE OFFICERS.

Ernest Rosenberg,	Ernest P. Marble,	Thomas B. Drinan,
John H. Dunleavy,	James F. Dagnan,	Clarence E. Bradway,
Thomas Ranney,	Alexander Gray,	James J. Collins,
James W. Murtagh,	Edwin C. Holbrook,	Bernard J. F. Bergren,
Michael C. Quinlivan,	Chas. H. Hatfield,	Peter H. Walsh,
Chas. H. O'Connell,	Patrick Lynch,	John F. Donoghue,
Ward E. Maranville,	John P. Sullivan,	William S. Bates,
Edgar A. Kirk,	Patrick J. O'Connor,	Daniel F. McCarthy,
Albert H. Shaw,	Thomas Maloney,	John LaFond,
James J. Donovan,	Frederick J. Runnells,	Patrick J. Fenton,
Edward P. Tilton,	Marshall A. Belmer,	Frederick J. Sevigne,
James H. Rogers,	William J. Hurley,	Alfred H. Penfield,
John A. Swift,	Llewellyn D. Carey,	Robert Rennison,
Michael F. Egan,	William F. Goldrick,	John A. Hamberg,
Patrick O'Keefe,	Michael F. Sullivan,	Myron H. Bullard,
Andrew J. Melaney,	Joseph D. Powers,	John A. Driscoll,
Albert F. Ward,	Edward Carey,	Harley H. Blodgett,
Simon J. Connery,	Horace G. Clark,	Charles Martens,
Ovila L. Huot,	Aime L. J. Letendre,	Perley J. Hewey,
Michael J. Kennedy,	Frederick P. Smith,	William J. Hogan,
William J. Grady,	George F. Russell,	Herbert A. Clark,
Daniel J. Twohig,	Joseph A. Murphy,	John F. Carlton,
Timothy J. Hallahan,	James A. Dowling,	Ernest C. Smith,
Charles W. Geary,	James H. O'Brien,	James F. Mullins,
John F. Bacon,	John McNeil,	George E. Lynch,
John L. Maloney,	Durham N. Pepin,	Michael J. Flannery,

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Howard F. Tourtellotte,	Thomas A. Kennefick,	John J. Maloney,
John G. Flynn,	John W. Unwin,	Arthur E. Clifford,
Edward J. Slattery,	James W. O'Keefe,	Edward D. Pepin,
Michael J. Curley,	John H. St. Legder,	Fred A. Champous,
Arthur H. Carrigg,	Matthew J. Meade,	William H. Hickey,
Jeremiah B. O'Leary,	William G. Dale,	Raymond C. Vining,
Charles Hanlon,	D. J. Manning, Jr.,	Ralph J. Carleton,
John Hayes,	John B. Carrigg,	John J. Donlin,
Patrick J. Keane,	Peter J. Marra,	Ernest C. LaFleur,
Thomas F. Connery,	Frederick Cullen,	James W. Pease,
Louis H. Pilon,	Thomas C. Fleming,	Edward J. Costello,
Eugene F. Kelleher,	John C. Driscoll,	Owen C. V. Sloan,
James P. Gray,	Cornelius P. Brosnan,	John H. McDonald,
Thomas L. Kavanaugh,	Charles C. Learned,	George N. Riley,
Mathew P. Ryan,	Antonio Forni,	John F. Hurley,
William F. Lonergan,	Michael J. O'Brien,	Walter Ward,
Patrick B. Sullivan,	James F. Wood,	Harry R. Button.
James J. Moylan,	Lovell S. Spaulding,	

RESERVE FORCE.

Lyman B. Bullock,	William F. Edmonds,	Albert J. Tessier,
Ward C. Maranville,	Raymond J. Hannon,	Raymond F. Connelly,
John J. Crowley,	Eugene A. Smith,	Thomas F. French,
John P. Driscoll,	George F. Henry, Jr.,	Philip E. Burke,
Arthur H. Parker,	James G. Taylor,	Frank J. McNeill,
Thomas Moriarty,	Daniel J. Sullivan,	Alfred L. Hough,
James B. Kemple,	Michael F. Feustel,	Peter McLelland,
Timothy H. Brodrick, Jr.	Cornelius F. Dowd,	John J. Long,
Thomas F. Murphy,	Daniel J. Long,	John F. Hedden.

SPECIAL POLICE OFFICERS.

Chester W. Allen,	Hiram A. Beach,	W. J. Callahan,
H. P. Anderton,	Morris Bilsky,	John Carr,
Theodore C. Baggs,	Fred Biselle,	Thos. H. Cartmill,
Nicholas J. Baker,	Alger P. Blaine,	Thos. W. Cashman,
W. F. Bardwell,	Geo. M. Blair,	John Cawley,
George M. Barker,	Frank A. Blanchard,	N. V. Chaffee,
Geo. W. Barnes,	Oswin B. Brockett,	Stacy R. Church,
Joseph E. Barnes,	Frank L. Brouillard,	Howard A. Clark,
John H. Barnes,	Archibald Brown,	Matthew J. Clark,
Joseph E. Bates,	Thos. F. Brunton,	Julius C. Collman,

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John J. Connor,
James J. Crowe,
Michael J. Crowley,
C. W. Cummings,
F. A. Cummings,
Antonio Dantono,
C. L. Davis,
Chas. O. Davis,
Michael J. Davis,
Dominick Dilopa,
Arthur J. Dion,
Angelo Di Palma,
James A. Donoghue,
McClellan Dow,
Patrick L. Dowd,
James F. Downer,
Frederick A. DuBois,
Chas. H. Dustin,
Frank Dutton,
Michael A. Feustel,
Ralph W. Ellis, Jr.,
Arthur Flebotte,
John P. Fleming,
Howard G. Fox,
William A. Gaunt,
Harry E. Gibbs,
Henry J. Glickman,
J. J. Gould,
John D. Gow,
Arthur E. Goyette,
William H. Grady,
Horace A. Grindle,
Clarence R. Hall,
William J. Hanifin,
Alfred J. Harper,
Michael J. Harrington,
Wm. C. Harrington,
John E. Hawkins,
Martin R. Healy,
John E. Hickey,
Jas. P. Hillard,
D. A. Hogan, Jr.,
Henry J. Howard,
John Hurley,
Charles Ireland,
James Jones,
Hayward C. Joynes,
A. E. Keith,
Michael W. Kenefick,
Harry E. Lakin,
H. B. Landen,
Thos. J. Leahy,
John J. Lee,
Wm. F. Lefebre,
Clayton J. Lewis,
Henry C. Lombra,
Michael D. Lynch,
James H. Lyons,
Burdett R. Madison,
Daniel J. Mahoney,
Montague R. Marsh,
Paskil G. Martione,
P. Mastrioni,
Dennis F. McCarthy,
Wm. J. McCarthy,
A. S. Miller,
C. A. Moody,
Daniel J. Moriarty,
W. H. Morley,
Chas. F. Morse,
George A. Mulany,
John H. Murphy,
Ellsworth C. Myers,
John H. Myers,
Donald North,
Chas. G. O'Malley,
Michael M. O'Sullivan,
Frank Pagliaro,
Constantin Pantasides,
R. I. Pike,
Harman Pouliot,
Alex. Pringle,
E. G. Quinlivan,
S. W. Rainger,
Thomas Ready,
Cornelius Riley,
Fred E. Ripley,
H. P. Roberts,
Frank E. Rogers,
John P. Rohan,
Frank F. Rolzhausen,
Chas. A. Ruby,
Michael J. Sarsfield,
J. S. Sawyer,
Justus A. Schelb,
Geo. F. Seidell,
Jere J. Shea,
Wm. J. Sibley,
James Sinclair,
Charles H. Smith,
Edward L. Smith,
Homer B. Smith,
J. E. Smith,
Ralph E. Smith,
Clifford J. Staples,
Joseph Supsie,
A. D. Swanson,
George Telmosse,
Barney Theraigne,
Dustin A. Tice,
Edmund F. Tillson,
George Tyler,
George J. Unwin,
Ralph H. Walsh,
Pearl G. M. Webster,
S. L. Wheeler,
Jas. H. Womble,
Geo. H. Wood,
Charles H. Woodard,
Henry Wright, Jr.

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MAYOR'S ADDRESS

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MAYOR'S SECOND ADDRESS

Gentlemen of the City Council:—

As we begin our work for the ensuing year as directors of the corporation known as the City of Springfield, it is wise to make a brief survey of the condition of the city. The year just ended, marks the close of a period during which necessity caused us to make great changes in our buildings and their equipment. We find ourselves as a governing body, well settled in excellent new buildings, planned for general administrative and municipal purposes, and comfortably accommodating many of the municipal departments. We find the fire department and the police department well provided for in their several buildings. The department of charities has had its plant rehabilitated and improved. Two only, of the greater divisions of our municipal organization, despite recent substantial additions to their buildings, call for more—the water department and the school department. The general office building of the water department has been sold and must be vacated by July 11, 1914. It has been claimed that the department cannot be adequately accommodated in the Administration Building. This may or may not be true, and the simplest way to settle the matter is for the department to move into the quarters left vacant for it and to endeavor to make the best use of them. I believe water rates in this city are excessive, a matter which I shall refer to again this morning. It will not tend to lessen rates, to build a new water building now.

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As for the school department, its governing committee on December 12, 1912, after careful analysis of demands, called for certain new buildings and additions to old buildings. (See School Committee's Report in the Municipal Register for 1913, page 45.) In the time which has gone since the Pynchon Street school was taken for general municipal purposes on February 25, 1905, Springfield has paid for new school buildings, sites and additions, $1,357,172.43 and has contracted for $1,039,176.38 more. Furthermore, a site for a building to replace the present Hooker school is partially secured. These figures are stated, not to discourage or to delay further provision for schools. I believe Springfield's policy along such lines is well established and sound. But no department should be allowed to have so large a share of municipal funds, that another department may suffer.

I think it has been a common, but not an intelligent opinion, during the past year or more, that Springfield has become extravagant, lavish almost, in providing buildings, salaries, and equipment. I say the opinion is not intelligent, because I know that no salary has been increased during the past year and no project has been undertaken, except after careful study, and for sound reasons, doubtless unknown to the critics. Many of the enactments of 1913 have been thought out for several years. We have deliberately paid our officials as we have, because we know we have excellent city officers and because we desired to be in a position to exact fairly the best possible service. We have endeavored to plan and to erect our buildings, adequately, properly laid down for the uses to which they should be put. We have not scrimped for ostentatious present economy and entailed future outlay. As I

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see it, the program is practically completed. With the exception of the school department, I know of no municipal division which can reasonably call for a new building, and I know of no salary which should be increased, except teachers' salaries. This should be a year of restraint, a year in which we shall carefully weigh and compare all requests and all projects. I know of nothing imperatively demanding an expenditure. We should endeavor to secure the greatest usefulness from our equipment and the greatest efficiency from our employees.

It will be of material assistance to receive, as we shall soon receive, from the Chairman of the Commission on City Planning, a careful statement of the projects before your boards and before the Board of Public Works, accompanied by analyses and suggestions. The thorough-going methods of this new commission are tokens of its conservatism and usefulness. You will also receive in due time from the Transportation Commission, a far-sighted, inclusive, and practicable report upon the railroad, railway, and navigation problems. I can only say to you concerning these latter matters, that the Transportation Commission has been diligent and has progressed sufficiently to know about what it intends to recommend. The report of this commission and the findings of the commission on City Planning will call for knowledge of our municipal finances. Our statement, according to the City Treasurer, is as follows:—

FINANCES.

Springfield began the fiscal year of 1913 with available cash amounting to $131,655, and closed the year, after paying

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all departmental expenses, and in some instances paying the larger part of the November bills and an extra week on some of the payrolls, with $96,838 available cash on hand. The total receipts amounted to $7,293,834.79, and the total expenditures were $6,917,605.51.

Bonds matured in 1913 and were paid, amounting to $416,200, of which $274,000 were water bonds and the balance bonds of sundry serial loans. The net increase in the city's funded debt was $1,098,800. The funded debt maturing in 1914 totals $287,700. Of this amount $84,000 is water debt, which will be paid by receipts of the water department. Serial bonds for other purposes fall due to the amount of $203,700, and will be appropriated for and paid from the tax levy.

Very few cities in Massachusetts close their fiscal year with any amount of available cash in the treasury, and four fifths of the cities have outstanding notes against their uncollected taxes. The City of Springfield has always maintained its uncollected taxes at the close of the year intact, never borrowing against them, but using this revenue as it is collected later, together with the available cash, for a working capital. At the beginning of 1914 the uncollected taxes amounted to $517,427, and the sums due the departments amounted to $53,246, a total of $667,511.

The year 1913 witnessed another, perhaps questionable, increase in the assessed valuations, which were raised to $169,640,484. These valuations placed the City of Springfield next to Boston and second in the State in taxable property, although ranking seventh in population, and bring attendant burdens. The tax rate last year of $15.80 per thousand was

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the lowest of any city in the Commonwealth. The average tax rate of the thirty-three Massachusetts cities was $19.20. Of course the large increase in valuations during recent years has been the factor that has kept the tax rate down. Taxable growth may be less this year. Valuations may not be so largely added to. That rests with the assessors. The funded debt has increased, with attendant interest charges. I look for a higher tax rate, and I ask you to assist me to keep the rate as low as possible.

Bonds were issued last year totaling $1,515,000, for the following purposes:—

High School of Commerce,	$500,000
Dwight and Water Streets, Railroad Underpasses,	400,000
Westfield Little River Water Loan,	250,000
Sewer Loan,	50,000
Buckingham School Loan,	220,000
School Workshop and Storehouse,	25,000
Land on School Street,	14,500
Remodeling and enlarging the Fire Station at North Main Street,	11,500
Constructing a Laundry and installing a heating and lighting plant at the Almshouse,	44,000
	$1,515,000

The issue of bonds for the High School of Commerce covered about one half of the cost. Bonds for the balance will be issued this year. In the case of the Underpasses, the authority of the legislative act was limited to an issue of bonds

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totaling $400,000, which was the amount sold last year. The estimates for this work call for an expenditure of about $550,000, and it may be necessary to issue bonds within the debt limit, for the difference.

We have little latitude in 1914, under the statutes, to incur new indebtedness, as is shown by this table:—

Amount of Debt City Can Incur, Within Statutory Limit.

2½ per cent. of average valuation for three preceding years,	$3,739,600
Present net bonded debt, after deducting exempted debts, water debts, and general sinking funds,	2,835,805
Debt City can incur in 1914,	$903,795

Debt that the City is Obligated to Incur in 1914.

High School of Commerce,	$500,000	
Completion of Dwight and Water Streets Underpasses,	150,000	
		650,000
New bonded debt that can be incurred in 1914,		$253,795

SUNDRY MATTERS.

There are many subjects to which your attention should be called, even if it must be briefly:—

During the past year there have come to light descriptions of tracts of land in various sections of Springfield, owned by the city, frequently unused, and likely to be forgotten. I recommend that a special committee be constituted to make a complete inventory of municipal realty. The excellent

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compilation of ex-alderman H. N. Bowman will serve as a nucleus. He caused to be compiled in 1910 a volume of blue prints of city realty. This should be corrected to date, source, cost of purchase, and value being given in each instance, and amplified. One tract, for instance, not in this book, was bought and exhausted as a country gravel bank and is now a building lot. Whether or not to utilize, beautify, or sell all unused tracts, should be the recommendations of such a committee.

Traffic conditions in Springfield need constant attention and the Rules of the Road should be frequently changed. Our excellent Chief of Police several times called the attention of the Board of Aldermen of last year to conditions which should have been promptly remedied, but nothing was done. I recommend that a permanent committee of the Board of Aldermen be constituted upon Rules of the Road.

You will be asked to make a large appropriation for street work, which I heartily recommend. Under the skillful direction of its new Superintendent, the department of streets put down this year more than one tenth of the improved streets of Springfield. I think you need only ask your constituents, to learn if more good streets are called for. It will be the endeavor of the department to attend carefully to the upkeep and cleanliness of all streets. I ask your assistance also to secure better sidewalks.

You will be requested to increase the police force. I believe this should be done. The demands of traffic, the growth of outlying districts, and the increasing business of this city require an increase.

I think we may fairly urge upon the Springfield newspapers

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more attention to the proceedings of the City Council and to the municipal departments. It has been well said that it is a function of a newspaper to present the facts concerning their city government to the citizens. You note I said *facts.* I have rarely seen an ample and correct account of a Council meeting. What the Council does, what city officers do, are seldom adequately set forth. The misinformation or lack of information of the public is hardly ever due to the willful act of reporter or newspaper. But municipal matters are not intelligently presented in the press because no paper has yet realized that the affairs of the municipality demand, if they are to be understood and properly reported, the best thought and exclusive time of an expert reporter. It is the experience of aldermen and councilmen that an entire year does not give them a grasp of municipal matters. How, then, can a young man, who hardly knows where Main Street is, come as a reporter to the City Council and report wisely, and how can any newspaper fairly present the "story" of that reporter as the facts concerning a Council meeting and assume, as a newspaper must, the tremendous responsibility of giving circulation to statements? There is but one reporter covering the Administration Building to-day that had that work one short year ago. I say what I have said as a plea for better service. I believe both the representatives and the servants of the people are entitled to have the *facts* expertly presented by the newspapers.

There are indications of detriment to the city in the existence of two or more organizations. I refer especially to the Van Horn Citizens' Club and to the Indian Orchard Citizens' Association. Sectionalism has no place in Springfield. In so

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far as these organizations are effective for betterment in their localities, in the way of attending to their own affairs and in stimulating a community spirit, they are valuable. And I feel sure that any attempt to secure, through organization, for one locality, anything that is not wisely to be done, having regard for the interests of Springfield as a whole, will not be countenanced by the thinking members of these organizations.

There have been installed during the past year in the department of streets and engineering, and in the water department, modern systems of accounting and modern methods. It is possible to tell what it costs to supply water to a taker. We now know what it actually costs to build a road or lay a sewer. The fire department has an excellent set of books. But in most of the accounting of the city, better methods may well be established. I believe it is the intention of our efficient Auditor to set up and maintain modern and accurate bookkeeping throughout the divisions of the city, and I bespeak for him your co-operation.

WATER RATES.

The City of Springfield owns its water supply. This plant represents an investment of nearly $5,000,000, and has annual earnings of nearly $400,000. It is physically adequate for the needs of the city. It is ably operated by a staff of skilled employees, and in the high character of the service rendered the people of Springfield may be pardoned for exhibiting a large degree of pride. This property was originally acquired from a private corporation, and after many years of growth and the substantial enlargement of its sources of supply the

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plant has come to be regarded as one of the best constructed and best operated municipal water plants in the United States.

While the physical plant has received much attention from the city, and may be regarded as complete and free from any large additional capital requirements, the Board of Water Commissioners unanimously believe that the time has come when the city should take up for consideration the schedule of rates, in order to ascertain whether or not some reduction can be made for the benefit of the people. The existing schedule has been in effect many years, during which time the plant has been greatly increased in capacity and operating efficiency. The rates when first adopted were reasonable and just to all consumers, but there is much reason to believe that under the present conditions of operation, and allowing the true cost of the service, some concession to the water consumers is possible. It may have been possible to have reduced the rates some years ago, but through adherence to the schedule, the plant has been developed to a high degree of service with materially lower operating costs. An analysis of the records in the office of the water department, and the conditions under which the rates apply, indicates that the advisability of a reduction in rates may now well be considered.

The facts as disclosed by the records lead to the conclusion that the existing schedule of water rates is unreasonably high, and that it discriminates against the average and especially the small consumer. While the investment in the plant is nearly $5,000,000, nearly one half of this amount has been paid for by the water consumers themselves in the high rate for water. It also appears that the City of Springfield is by far the largest consumer of water; that its demands on the system

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are responsible for approximately one half of the plant capacity; and that in one form or another the city consumes nearly one half of all the water supplied. For all this service, which costs the water department large sums each year, the city makes no payment whatever. All the costs of operating the water plant are paid out of the collections from private consumers, who pay in addition to the charges for their own services, the costs incurred by the city and also, in large part, for the construction cost of the plant itself. Water is supplied to nearly 14,000 homes and business establishments in Springfield. This number by no means represents all the property in this city. Many lots, houses, and business concerns which are subject to taxation for the support of the city government are not directly connected with the water system, and hence pay nothing for water supply, although they receive substantial benefits because of the existence of the system and the service rendered by the city. The burdens which this property should pay are now shifted to the small consumers, whose rate for water is clearly too high.

The water taken by the city is used in fire protection, street sprinkling, in the public schools, parks and playgrounds, etc. The fire service alone, in addition to the cost of the water consumed, has occasioned the placing of extra large mains, the capacity of which would never be required by the commercial consumers, who are compelled to pay all the interest and depreciation on this large investment. Other departments of the city are also large users of water for which no payment is made. These uses of water are for the benefit of the entire city and all the property located therein, and not for the benefit only of the private consumers directly connected. The fire

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protection service is a distinct element of value to all property; the schools are for the benefit of the entire city, and so are the parks and playgrounds. The sprinkling of streets is a direct benefit to all abutting property, and it may well be asked why the property so benefited should not be made to bear the cost of water for this service. Instead, there is added a charge to the rate for water exacted from the small private consumers. It is the small consumer who suffers most, since he is charged a rate of 30 cents per thousand gallons, while the large industrial consumers and railroads pay but 7 cents per thousand gallons. The city avoids payment altogether. The injustice of such a schedule is almost self-evident and a readjustment of the rates should be made at an early date. Expenses for service which accrues to the benefit of all property should be paid by taxes levied on the property benefited. The small users of water should no more be asked to pay in the form of increased water rates the taxes properly chargeable against other property, than a user of gas or telephone service should be charged an additional amount to cover the maintenance of the police department or the construction of sewers.

There appears no reason why, in the preparation of the annual budget, provision should not be made for the cost of water used as well as for the cost of heating and lighting. The fact that the plant producing the service is owned by the public, offers no reason why the public should be exempt from meeting the costs it incurs and be permitted to place its burden on the water bills of the private consumers. The avoidance of payment for the service used by the public amounts to the shifting of a portion of the taxes on all property in the city on to the

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living expenses of those who take water from the city. This is clearly an unjust discrimination.

The department spends each year from earnings a large amount for the extension of the water service. Bonds issued for construction purposes are also retired by payments out of earnings. But it is an established rule of public utility service that the rates charged should be such as will meet all the operating expenses, depreciation of plant, and a reasonable return on the investment. Additions to the property should be financed through the provision of additional capital supplied by the public, and not alone by those who subscribe for the water service. Their obligation, is to pay a reasonable return on the investment devoted to the water service, and they should not be required to provide the capital and then pay for its use as well.

Because of the large payments for construction which have been made out of earnings, the City of Springfield now possesses a very large equity in the water property. For its own use of this property the city in fairness to the other consumers should either pay for the service it requires on the fair basis of its cost, and receive at the end of the year a return on its equity in the property, or it may consider, if it prefers, that the value of the service it receives should apply on the return to which it is entitled on its portion of the investment. In either event an examination should be made to ascertain the proper amount of costs chargeable to each class of consumers, so that the private consumers will pay rates which will cover their costs only, including the fixed charges on their own proportion of the plant capacity and use. It is on the principle of distribution of costs, in order that each class of consumers

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shall pay the expenses which it incurs, that the public regulates privately owned water utilities. In order to derive the greatest benefit from municipal ownership, the same business principles should be applied when the city is rendering such service. The rate of 30 cents per thousand gallons now charged private consumers is materially higher than the corresponding rates charged by private plants. Steps should be taken so that the people of Springfield may receive service from their municipally owned plant, at as reasonable rates as those generally obtained from private water plants, especially to the extent warranted by the costs of operation, which I believe justify a reduction in rates.

In conclusion let me urge you to put the city's business first. The duties you will be called upon to perform demand your best thought, your unswerving fidelity, and personal sacrifice of time and pleasure. Whatever changes in responsibilities the consideration and adoption of a new charter may bring, the work of 1914 is yours to perform.

JOHN A. DENISON.

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REPORT

OF THE

SCHOOL BOARD

OF THE

CITY OF SPRINGFIELD,

MASSACHUSETTS.

1913

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SCHOOL BOARD FOR 1913

JOHN A. DENISON, MAYOR,
CHAIRMAN, *ex officio.*

	TERM EXPIRES.
AT LARGE.—NEWTON M. HALL, 19 Elliott Street.	Dec. 31, 1915
WARD 1.—WAYLAND V. JAMES, 69 Waverly Street.	Dec. 31, 1915
WARD 2.—HENRY L. HIRSCH, 172 Main Street.	Dec. 31, 1915
WARD 3.—RALPH B. OBER, 76 Maple Street.	Dec. 31, 1913
WARD 4.—LEONA M. PEIRCE, 247 Union Street.	Dec. 31, 1913
WARD 5.—MRS. ESTHER J. MORGAN, 7 Lincoln Street.	Dec. 31, 1913
WARD 6.—FREDERICK HARRIS, 270 Maple Street.	Dec. 31, 1914
WARD 7.—FRANCIS M. BENNITT, VICE-CHAIRMAN, 120 Sumner Avenue.	Dec. 31, 1914
WARD 8.—GEORGE H. HOWARD, 204 Wilbraham Road	Dec. 31, 1914

SECRETARY,
BERTHA M. McCONKEY.

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SUPERINTENDENT OF SCHOOLS,

JAMES H. VAN SICKLE,

Administration Building. Office hours: School days, from 12 M. to 1 P. M.; Saturdays, from 10 A. M. to 1 P. M.

ASSISTANT SUPERINTENDENT OF SCHOOLS, PRIMARY SCHOOLS, AND KINDERGARTENS,

BERTHA M. McCONKEY,

Administration Building. Office hours: School days, from 12 M. to 1 P. M.; Saturdays, from 10.30 A. M. to 1 P. M.

CHIEF CLERK,

FRED L. WARD,

Administration Building. Office hours: 8.30 A. M. to 5 P. M.; Saturdays, 8.30 A. M. to 1 P. M.

CLERKS,

EDWINA A. MILLER,
CHARLES A. H. PARKER,
A. LEOTA PINNEY,
ANNA F. LEONARD.

SCHOOLHOUSE AGENT,

HIRAM L. DORMAN,

Administration Building. Office hours: 10.30 to 11.30 A. M. and 4 to 5 P. M.

CLERK,

L. EMELYN TEN EYCK.

ATTENDANCE OFFICER,

JOHN A. PARKER,

ASSISTANT,

H. A. KILLMER,

Administration Building. Office hour: 1 to 2 P. M.

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SPECIAL COMMITTEES FOR 1913

Finance.

THE MAYOR, DR. BENNITT, and MR. HARRIS.

Text-Books and Supplies.

MISS PEIRCE, PROF. HOWARD, and DR. HALL.

Central High School.

DR. BENNITT, MISS PEIRCE, and DR. HALL.

Technical High School.

DR. OBER, MRS. MORGAN, and PROF. HOWARD.

High School of Commerce.

MR. HARRIS, DR. BENNITT, and MR. JAMES.

Industrial Schools and Manual Training.

MR. JAMES, DR. HALL, and DR. HIRSCH.

Evening Schools.

PROF. HOWARD, MRS. MORGAN, and DR. OBER.

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Kindergartens.

DR. OBER, MISS PEIRCE, and DR. HIRSCH.

Ungraded Schools.

DR. HALL, DR. HIRSCH, and PROF. HOWARD.

Physical Culture and Hygiene.

DR. BENNITT, DR. OBER, and DR. HIRSCH.

Music.

MRS. MORGAN, MISS PEIRCE, and MR. HARRIS.

Domestic Science and Art.

MISS PEIRCE, MRS. MORGAN, and PROF. HOWARD.

New Buildings.

MR. HARRIS, MR. JAMES, and DR. OBER.

Salaries.

MR. JAMES, DR. BENNITT, and MRS. MORGAN.

Ward One Group of Schools.

Carew street, Brightwood, Lincoln, Jefferson avenue, Armory street, and Chestnut street.

MR. JAMES.

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Ward Two Group of Schools.

Hooker and Charles streets.

DR. HIRSCH.

Ward Three Group of Schools.

Howard Street.

DR. OBER.

Ward Four Group of Schools.

State street, Worthington street, and School street.

MISS PEIRCE.

Ward Five Group of Schools.

Barrows, Tapley, Strickland, and East Union street.

MRS. MORGAN.

Ward Six Group of Schools.

Acushnet avenue and William street.

MR. HARRIS.

Ward Seven Group of Schools.

Central street, Sumner avenue, Forest Park, Kensington avenue, Alden street, White street, and Eastern avenue.

DR. BENNITT.

Ward Eight Group of Schools.

Buckingham, Homer street, Indian Orchard Grammar and Primary.

PROF. HOWARD.

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ADVISORY COMMITTEE FOR VOCATIONAL SCHOOL.

Metal-Working Department.

EDWARD S. POMEROY,
Master Mechanic, Smith & Wesson's.

R. W. ELLINGHAM,
Works Manager, Hendee Manufacturing Co.

CLARENCE W. ALLEN,
Superintendent Springfield Machine Co.

Wood-Working Department.

A. G. CHAPMAN,
Carpenter-Builder.

C. H. CUTLER,
Foreman, Hampden Lumber Co.

WILLIAM FOSTER,
Foreman, Shattuck Brothers.

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REPORT

OF THE

SCHOOL BOARD

To the Citizens of Springfield:—

The School Board submits its customary report for your consideration. The public is kept well informed throughout the year, through the press, of the various activities of the schools and of matters connected with their administration, and except for permanent record these reports may be of little value. A careful examination of all the reports connected with the work of the Department of Education will give a partial idea at least of the efforts to keep the city of Springfield in the van of educational progress.

THE DEPARTMENT QUARTERS.

In November the Board met for the first time in its commodious rooms in the new Administration Building. The welcome contrast in facilities is appreciated by all the workers in this department, and will serve to impress upon the many visitors who come to Springfield to study our school system the willingness of the citizens to give to the school administrators dignified conveniences in keeping with the reputation and efficiency of the city's activities.

The room provided for the meetings of the Board is planned for conferences with large groups of teachers and officers. Around the room are convenient racks for the exhibition of work done in the public schools. Teachers, parents, and the business community have an opportunity here to examine the

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papers and other work of the pupils and to come into closer touch with what is actually being done in the effort to provide for the steady growth of knowledge in all departments. Much criticism is heard in these days respecting school courses and methods of teaching. Your Board and its officers welcome all suggestions that will aid in securing results that will send out from our schools men and women provided with well trained minds and with the ability to face the conditions of life with a large measure of practical efficiency.

It is significant of the high place held by our public schools in our city life that in the dedication of the new Municipal Group the work of the schools is occupying a prominent place.

At this point it is fitting to refer more fully to the municipal exhibit held in connection with the events of dedication week. It is well characterized as "a short course in citizenship," and, though under the supervision of the New York Bureau of Municipal Research, aided by the heads of the city departments, it may rightfully claim a place in the record of the educational activities for the year just ending. This practical appeal to "know your city" should serve to convince the taxpayers that a very large part of the city's prosperity as a place for home building depends on the work of the School Department. Because of this importance, its management should be in the hands of those who are qualified to be intrusted with a large measure of power.

CITY CHARTER.

Your Board has given careful consideration to the question of what powers should be committed to the Board of Education. The results of its deliberations have been given to the charter revision committee and by that committee reported to the City Government. More responsibility for the care of the school buildings will, it is still believed, simplify administrative efficiency and promote the comfort of the pupils.

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The increasing demand for the use of school buildings as centers of social and civic activities could in this way be planned more directly under such educational supervision as would be essential to the more complete success of such community work. The School Board asks the citizens of Springfield to examine these claims for greater efficiency which may be expected under the working of the new charter's provisions.

SCHOOL GROWTH.

Statistical tables show that there is a steady and healthy growth in the number of children of school age, a growth taxing the accommodations for the same in all parts of the city. The well known efficiency of Springfield's school system continues to attract home seekers.

To show how pressing is the need of increased accommodation, it seems well to quote at length from letters sent recently to the chairman of the City Property Committee by Superintendent Van Sickle:—

"In a report made to your committee, at its request, on December 2, 1912 (See Annual Report, pp 9-11), the schoolhouse requirements of the city were set forth in the order of their urgency at that time. It was not then known what the results of the negotiations then pending between the City Property Committee and the School Board, regarding the disposal of the Hooker School, would be, and consequently the list had to be made up without reference to the Hooker School situation. Since then, the wise decision has been reached to erect a new Hooker School of practically twice the capacity of the old building. If the erection of this school is begun promptly and pushed forward with all possible rapidity, action upon recommendations for enlarging the Carew Street School and the Jefferson Avenue School may be deferred for a time as the new Hooker School will afford relief temporarily to both these schools. I therefore urge that there be no delay in the erection of the new building for which plans have been prepared. The needs of the territory between the Arch and Carew

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Street will call for the occupancy of every room in the new building in the immediate future. The present building is too small for its legitimate enrollment, and forced transfers have had to be made to the Worthington and Chestnut Street schools at considerable inconvenience to the patrons. The rooms in these two schools are now fully occupied and can afford no further relief.

"The addition to the Buckingham School, if pushed to early completion, will relieve the congestion at the Homer Street, the Tapley, and the East Union Street schools.

"The need of an addition to the Brightwood School is next most urgent. Early action upon the needs of this school will permit delay in adding to the Lincoln School, since many of the children in the upper grades at the Lincoln School live in the Brightwood territory.

"The Armory Street School, which was placed in Group II in the School Board's report, should be moved up into Group I. This addition is no less urgent than the Brightwood addition.

"A small addition to the Indian Orchard Primary School, involving the enlargement of existing rooms, will meet the present needs of that school, but an addition to the Indian Orchard Grammar School now seems more urgently needed than when the School Board's report was made to your committee. Nearly all of the rooms in this school are overcrowded and the population in that neighborhood is increasing rapidly.

"Further needs of the Central Street School will claim consideration in the near future.

"Other future needs set forth in the School Board's letter and last annual report need not be enumerated here. The rapid growth of the city in population fully justifies the forecast therein made.

"There has been no provision for an elementary school since the appropriation was made for the Sumner Avenue School, April 3, 1911. During two years immediately following, the school enrollment increased from 16,074 to 17,492. Our present needs are therefore extremely urgent. They are also so widely distributed that I now raise the question whether it will not be necessary to consider the erection of portable schools to take care of the overflow in existing schools until

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additions can be built. Needs which could be relieved in this way now exist at the Strickland School, the Homer Street School, the Indian Orchard Grammar School, the Brightwood School, and the Armory Street School.

"A one-room portable school can be erected and completely furnished for something less than $2000. At present prices, a class room in a standard school building costs more than three times this amount. Since in a growing city there will always be need of relief here and there, would it not be well to consider the ownership by the city of five such portable schoolrooms?

"I recommend that two one-room portable schools be provided at once for the relief of overcrowded schools, one at the Homer Street School and one at the Indian Orchard Grammar School.

"The Homer Street School cannot be relieved by the new Buckingham School before February, 1915, and already in spite of the temporary provision of two extra classrooms, one taken from the kindergarten and one from the hallway, several of the classes are much too large.

"At Myrtle Street, Indian Orchard, the needs are equally imperative.

"The Strickland School also needs immediate relief. Should your committee prefer to give this relief by providing another class room on the third floor of the Barrows School, a class from the Strickland School might be transferred to the Barrows School. In that case, I would suggest that the provision be regarded as temporary and that the room be partitioned off by means of head high screens with blackboard surface. This third floor space at Barrows, while of some value as an assembly room, is not adapted to permanent use for class room purposes. Should you decide against this means of providing temporary relief to the Strickland School, it will be necessary to ask for a third portable schoolroom at this time.

"Unless the much needed addition to the Brightwood School is to be pushed to early completion, a fourth portable should be placed in the Brightwood School yard.

"My recommendations, therefore, with regard to two portables of one class room each is positive. My recommendation that two more be provided, making four in all at this time,

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depends upon the action which your committee may take upon the Strickland and Brightwood School needs.

"I am sending with this communication a letter and blueprint from the Schoolhouse Department in Boston, from which it appears that a one-room portable school planned to accommodate some 36 to 40 pupils can be erected for $1300 to $1500. The furnishings, aside from the cased stove for heating and ventilating, will cost the same as for a regular schoolroom."

That some progress has been made toward relieving the congestion is seen in the fact that ground has been broken for the new High School of Commerce; that the city has awarded contracts for changes in the Buckingham School, and that plans for a building to replace the Hooker School have been approved and passed on to the City Property Committee.

THE HIGH SCHOOLS.

The rapid growth of the three high schools calls for a careful study of their needs as related to each other. Already the capacious buildings so recently provided are seriously taxed to provide accommodations for new classes. Each has developed most successfully along lines that have proved efficient and that have brought to each a high reputation. The sites of each having been definitely determined, it becomes incumbent on your Board to consider several important questions connected with the administration of each. Recognizing the emphasis to be placed upon the special work for which each stands, it must continue to take account of what each has done to round out the course of training provided for its pupils and at the same time plan for the widest good possible with such economy as is consistent with these aims. These questions involve problems concerning courses of study offered and their duplications, recitation hours, plans of assignment of new pupils, care of overflow from the Technical and the Central, the spirit and discipline of each, as well as all the various voluntary school activities which are intimately related to the educational welfare of the students.

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"The schoolboy's lost two years" should not be charged against the schools of Springfield through any causes that can be remedied. The American spirit of self-help should be fostered, but "outside distractions from the main business" should be discouraged, and it is believed that the parents are willing to co-operate in securing the best results possible.

Mention should be made of the concert given last April in the new Auditorium by the choruses of the high schools.

"The interest in music, which has been growing very rapidly throughout the grades for a number of years, naturally finds its fullest expression in the High Schools where the enrollment in chorus work on an optional basis includes a large percentage of the total enrollment of all pupils. The completion of the new Auditorium provided a suitable place for a public expression of this interest and a concert was given on April 18, in which the total strength of the three choruses was employed, seven hundred and fifty voices. It is gratifying to state that the enterprise was a success in every way. This concert established a high standard for future events of this kind, of which it is to be hoped that there may be many."

THE CENTRAL HIGH SCHOOL.

The work done in this school has maintained its well known high standing. Owing to the present necessity of providing accommodations for the classes in the High School of Commerce, ideal arrangements cannot find place in the schedule of studies. From fifty to sixty recitations per week must be planned for in some of the class rooms.

Arrangements are being made for a limited number of students to take courses in domestic science. This step has been taken after careful deliberation and with due regard for the distinctive work for which the school stands.

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THE TECHNICAL HIGH SCHOOL.

A careful statement of the principles under which this school was founded has been given to the public in a previous report and it may not be necessary to repeat them here. It is in accordance with these principles that the school has been conducted, and the success and the popularity which have attended the efforts thus far appear to justify the wish to continue the policy of providing for high grade work on academic lines as well as on technical lines. The age calls for specializing, but the present also calls for such training as will best conserve a cultured democracy.

The growth of the school has been strong and progressive. Some minor changes in the arrangement of passages are needed to facilitate classes in moving to recitation rooms.

THE HIGH SCHOOL OF COMMERCE.

The public knows the aims of this school. Your Board is glad to be able to report the actual beginning of its new home on State Street. A loyal body of students, which promises to increase rapidly, is looking forward with high hopes, students who are learning how to meet the demands of modern business and who are being trained in the ethical principles needed in the commercial world to-day. Some doubts have been expressed as to the wisdom of constructing a building large enough to accommodate 1500 pupils. The indications point to the need of such a building in the near future,—a need for the High School of Commerce and for the overflow from the other two high schools. In spite of short afternoon sessions, the growth in numbers has been steady. The enrollment now is 91 more than it was at the same time last year, an increase twice as great as the average annual increase for the last three years. An additional encouraging sign is found in the report that the demand for the graduates of the school has more than kept pace with the number of graduates.

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EVENING SCHOOLS.

A factor of growing importance and promising to play a helpful part in the development of our community life is the growth of the evening schools. Nearly 3000 students, whose ages range from under 16 to over 50, are taking advantage of the opportunities offered. Of the total number enrolled, 67 per cent. are men; 25 per cent. are in the Evening High; and over 22 per cent. in the School of Trades.

The list of nationalities represented is not less interesting. Thirty-three foreign countries claim the birthplace of 1332 pupils. The United States has 1234, and there are 224 Hebrews.

The subjects taught in the elementary schools are of a character to prepare for intelligent, loyal, worthy citizenship.

It is of interest to learn that Springfield established an evening elementary school in 1851, nineteen years before the state law requiring such schools for every city or town of 10,000 or more inhabitants, and that Springfield in 1898 established the first public evening trade school in America.

The School of Trades offers graded courses in drawing, mechanical and freehand, and design-crafts, machine shop practice, plumbing, woodwork, electricity, mathematics, sewing, millinery, and cooking.

The Evening High School provides for more advanced work in bookkeeping, stenography, typewriting, penmanship, commercial law and arithmetic, business correspondence, English, literature, French, Spanish, civil government, chemistry, physics, algebra, and geometry.

Of the 704 at present attending the Evening High School, 21 are placed in the list of unskilled laborers; the rest are made up of teachers, students, and those employed in domestic work, business, and skilled labor.

In the Superintendent's report may be found more complete details of the work which is here given only in brief and which are deserving of careful reading. It will be seen that the prob-

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lem of utilizing the city's educational plant to its full capacity is being solved in a way that promises much for the welfare of this growing community.

The Evening High School has been authorized this year to require from its students a registration deposit of one dollar, which is to be returned on the satisfactory fulfillment of certain conditions.

Favorable results in the way of more regular attendance and increased earnestness are already observed. A visit to the school will show a body of students interested in the opportunities offered.

A quotation from a bulletin issued to the teachers by Principal Ellis will reveal the spirit in which the students are received and the personal effort made on the part of the teachers to give to the schools the service that will maintain high standing and promote the highest good of the community.

"Important. The popularity of the school is indicated by the very large registration, but the success of the school cannot be measured by this standard. Its success will be determined in a large measure by the percentage of pupils that we are able to hold in the school until the end of the term. In like manner, the success of any individual teacher will be measured by the percentage of pupils he is able to retain in his classes until the end of the term. We must not forget that it requires a good deal of self-sacrifice for these pupils to come to school in the evening, and we must make our work of so much interest and value that they will believe that the sacrifice is worth while. Much can be done by looking after the attendance of any pupils who may have become irregular. A personal note from the teacher is of much more assistance in bringing pupils back to school than any formal note from the office."

At the hearing held recently by the State Immigration Commission, your Board was well represented and it is believed that Springfield is not indifferent to the opportunities offered by the evening schools to meet the problem of providing educational

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advantages to the many who desire education and training but who are debarred from the privileges of the day schools for economic reasons.

It may be that the people of Springfield have not attached sufficient importance to the work done in these evening schools. A paragraph from a Cambridge annual school report, given by Mr. M. F. Fitzgerald, is suggestive and stimulative:—

"Evening schools as a rule have too long been regarded as of somewhat inconsiderable importance, and because of this fact it is not strange that doubt is sometimes expressed as to whether they accomplish anything worth while. It goes without saying that if little is expected in the way of accomplishment, little will be secured. If evening schools are to be taught in an amateurish way by people untrained for the work; if they are to remain crippled by lack of suitable funds for suitable equipment; if the course of study is not to be arranged with the idea of meeting the needs of the pupils who come, then certainly little can be hoped for. On the other hand, if it is recognized that these schools are an integral part of the school system; that their mission is to furnish education and training to hundreds of boys and girls and men and women who can get that training in no other way; if they are so organized and so taught as to impress upon the pupils and the community that they do constitute an important part of the city's educational activities, then much can be expected of them."

Your Board believes that these ideals are being realized in a large degree in Springfield. Conditions in our city are not what they were fifty years ago when we were only a good sized town, a homogeneous people, knowing each other and calling each other by our Christian names. A multitude of new peoples, speaking strange tongues, can find in our evening schools a means of entering more fully into our community life. It would appear wise to give some further study toward adjusting the evening school courses, to provide for a measure of ranking with the standing acquired in the day schools. Some

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who have failed to complete courses necessary to secure a diploma would find here an incentive to continue their studies.

THE EVENING SCHOOL OF TRADES.

The active and growing interest which has attended the Evening School of Trades since its organization in 1898 has been fully maintained during the past season. The attendance has been satisfactory in every department with marked increases in some of them, notably in the class in electrical construction. There has also been a large increase in the enrollment of the dressmaking and millinery classes, which are not strictly a part of the trade school though associated with it. One of the most impressive facts connected with the membership of this school is the comparatively large number who enroll for a second, a third, or even a fourth season. This fact, together with the high percentage of attendance every year, which last year reached the exceptionally high percentage for evening school work of 81.8, indicates that those who attend appreciate the opportunities which the school offers. It should not be forgotten that the membership of the school is almost entirely made up of those who are employed during the day. A school which attracts to its membership, year after year, an increasing number of hard working young men and young women and holds their interest for the entire season must be doing both them and the community a real service.

The chief purpose of this school has always been to offer to men already employed in the local trades or industries an opportunity for improvement in the line of work which their occupations call for. Plumbers, machinists, woodworkers, and draftsmen who have had limited opportunities to perfect themselves in their calling have found in this school a chance to secure the needed instruction both in principles and in practice. In a word, the school is primarily an industrial continuation

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school. It is well to recognize the fact, however, that it has been found impracticable to adhere to so definite an aim in every department because the present organization of the school has been brought about by combining classes which originally had and by nature must have different aims in view. The oldest of these classes is the class in drafting, which was organized over forty years ago in accordance with the state law of 1870 requiring instruction in common branches, including industrial drawing. While these classes have furnished direct vocational training to many draftsmen, their general aim has been broader —i e., to furnish instruction in drawing which should be useful in other callings. A still broader purpose has inspired some of the newer classes that have been associated with the Evening School of Trades, i. e., the classes in shop mathematics, freehand drawing, design-crafts, millinery, dressmaking, and cooking. The instruction in these classes, while not losing sight of its practical usefulness in the industries and in the home, assumes the possibility of very wide applications of the principles and methods taught. Quite different, on the other hand, is the character of the instruction in machine shop practice, pattern making, and plumbing. These classes are, strictly speaking, devoted to the teaching of definite trades.

It will be of interest to the School Board and to all citizens especially interested in the schools to note that the Douglas Commission on Industrial Education in 1906 pointed out the fact that Springfield, in this school, made the first effort of any community in Massachusetts to teach trades at public expense, although the law authorizing public industrial schools was placed upon the statute book in 1872. As a matter of fact, the Evening School of Trades was not only the first public trade school in Massachusetts but the first of its kind in the United States. Citizens of Springfield should not forget that the School Board of 1898, in approving the organization of this school, were pioneers in an important educational development.

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After sixteen years of successful operation, with a total enrollment during that time of 6,243, the usefulness of the Evening School of Trades to the industries of Springfield and neighboring communities would seem to need no further demonstration. If proof be needed it may readily be found in the high words of commendation which have been spoken by the managers of scores of industrial establishments, and by the experience of more than three thousand mechanics whose technical efficiency has been increased through instruction in this school so that they have received a higher classification in their trades. A considerable number of men report every year an increased earning capacity which is directly attributable to the instruction which they have received here. It should be noted, too, that this increased efficiency on the part of the workmen is due not wholly to increased skill in one line of work, though that is an important gain. This school gives them an opportunity to get a more extensive and varied knowledge of their trade than they would be able to acquire in many years of employment in the highly specialized modern shops. In this way the industrial intelligence of machinists, plumbers, and woodworkers who take these courses is greatly increased. Too much emphasis cannot be given to this view of the work of a well equipped trade school.

MANUAL TRAINING.

In the past year, the manual training work has shown an approach to the idea of doing things that are true to life. This is illustrated in the elementary grades where wood block furniture and cement blocks for houses and fireplaces are taking the place of paper in making these things. In the grammar grades, the model exercises in wood have given place to such projects as small house frames, derrick and bridge studies, the telegraph, and printing. "Learning by doing" applies as a principle

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more than ever in the manual training work, but the emphasis is on the doing of lifelike things.

The aim of the manual training work in Springfield is to give the children concrete experiences with materials having to do with some of the fundamental activities, as clothing, shelter, food, transportation, and communication. A great variety of materials is introduced into the class room, such as clay, plaster, cement, worsted, cotton, wood, and metal. In the elementary grades the things made are usually suggested by the regular class work in reading, geography, and history, as the building of caves, cabins, and colonial fireplaces. The shop work in the grammar grades deals almost entirely with mechanical occupations so far as is practical under school conditions. More projects involving the co-operation of boys in groups were made this year than previously. Large bridge models and printed booklets are examples of this type of work.

The many kinds of work done in the shops require a variety of equipment, a large part of which has been furnished by the Vocational School. The manual training shops originally had only woodworking benches and tools. At present they are equipped to do simple metal work, soft metal casting, etching, and printing, in addition to the woodwork.

In order to gain efficiency in the work, a tool room and a metal working bench have been added to each shop, and the regular benches have been rearranged for convenience. The instructors report that these changes have enabled them to secure better work and in less time than formerly.

The future of manual training points toward the introduction of more lifelike work, and to dealing with it on a more lifelike basis. The opportunities for selecting projects from real activities for this purpose are so numerous that it is doubtful whether manual training will ever come to a standstill in its development.

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RURAL SCHOOLS.

With the growing tendency to make the city the central point of attention, the problem of meeting the needs of the outlying districts becomes necessarily more difficult. Both efficiency and economy are involved. The pupils of one such school that would be classed as ungraded are now provided with means of transportation. In other sections the local spirit manifested led to the maintaining of schools for the lower grades.

Your committee has found the ungraded schools well attended by earnest pupils who appear to be making good progress under the painstaking efforts of faithful teachers. As conditions exist, no immediate change in the system is recommended, though as a general statement, transportation to the larger centers would offer some advantages.

OPEN-AIR SCHOOL.

This school continues to fulfill the expectations given in previous reports. The large majority given in the recent city election in favor of granting to the city government the right to provide food for school children has led the Board to request that the city assume the expense of maintaining the school now in operation.

The Society for the Prevention of Tuberculosis is entitled to the gratitude of the city for the work it has done, work that would appear to find its justification in the reports of the health department. This dreaded foe, as a cause of death, passes from the first place in 1904 to the fourth place in 1913.

The success of recent efforts to carry on school work in an environment better supplied with fresh cold air is being shown in requests for additional open-window rooms.

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VISITING TEACHER.

The faith and initiative born of private association work in showing the way for profitable collective effort is being manifested in the willingness of the society of the Church of the Unity to meet the expense connected with the duties of a visiting teacher. Miss Marian H. Studley is doing successful work in establishing helpful and intelligent means of co-operation between the home and the school, thus keeping in touch with the real needs of the children.

PSYCHOLOGICAL LABORATORY.

The work begun last year by Dr. Dawson has been continued. The School Department in doing this is placing itself in line with progressive psychological efforts which are meeting with favor among those who are striving to place the stamp of scientific approval upon later methods of instruction.

The psychological laboratory is equipped with instruments for determining the mental and physical conditions of a child. Much help is often afforded a teacher in dealing with particular cases of children who do not adapt themselves to their courses of study. Imperfect vision, slight nervous disorders, etc., are often found to be the causes of apparent mental defectiveness, which may easily be remedied. A partial description of the laboratory is quoted from a local paper:—

"Among the machines used for determining the physical condition of children are those for testing lung-power and gripping strength, a weighing machine, measuring machines for height and head and chest, and others for testing sight and hearing. Some of the mental tests applied are those to determine the condition of the memory and ingenuity, judgment of form and size, mental responsiveness to a given stimulus, and mental retentiveness. Another device tests the so-called sixth sense, the muscle sense. This is done by means of wooden

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blocks of many different shapes that fit into holes in a board. The child is allowed to examine these carefully and is then blindfolded and set to putting the blocks into the holes. The time in which he can do this determines the condition of his 'feel' for different shapes.

"Another interesting instrument is the psycho-galvanometer, which is now being widely discussed in scientific circles. Some of its most ardent champions have asserted that it can invariably determine whether a suspected criminal is guilty or not. A feeble electric current passing through the body operates a galvanometer. The person taking the test is asked various questions and according to the emotions excited in him by these questions the electric current is altered so that it moves the armature of the galvanometer and this reflects a beam of light on a graduated scale. By the reading of this scale the emotional condition of the person is known. There are other tests equally interesting."

INTENSIVE AGRICULTURE.

A plan for a vocational school of intensive agriculture, prepared by Miss Stebbins, Supervisor of Nature Study, has been placed in the hands of the School Board. Its object is to train pupils to become intelligent and successful gardeners, florists, fruit-growers, poultry-raisers, bee-keepers, etc., pupils of fourteen years of age or over to take a three years' course, following the method known as project study, with as much choice as possible within certain limits.

Taking the Hubbard squash as an example, the study involves soil, situation, time of planting and harvesting, market, with estimates of cost and price. The work includes such details as buying and testing seed, preparing the garden, fertilizers, cultivation, and protection from plant foes.

The plan is deserving of careful consideration, and will receive attention as soon as a measure of success and public support is assured.

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WIDER USE OF SCHOOL BUILDINGS.

Some progress for the wider use of Springfield school buildings for social purposes has been made. At present the work has been mostly in charge of agencies outside of the regular educational management.

Mr. Arthur P. Irving, Principal of the Buckingham School, as chairman of a special committee appointed by the federation of the men's clubs of the city, has presented a report which shows what has been done, what further steps should be taken, and what relation the movement should have ultimately to the city's educational departments. The report is in part as follows:—

"'The work of school extension,' of 'the wider use of schoolhouses,' as it has developed in several of our larger cities, appears to have three rather distinct lines of growth:—

"1. The formation of parents' associations, more or less formal in organization, by the principals and teachers of a school district for a closer union of school and homes, disseminating by exhibits, conferences and lectures, information for bettering the conditions of the children.

"2. Lecture courses, concerts and other entertainments in school auditoriums for the benefit of the adults of the neighborhood.

"3. The use of the schoolhouses, under the direction of paid workers, as meeting places for a number of small clubs of various kinds to instruct, guide, and entertain adults and especially young folks beyond the reach of the day schools.

"Under the first head we can say that parents' associations are organized already in a few of the primary schools of Springfield and are proving their usefulness. Under the second head we are practically limited for free lectures to the occasional offerings of the miscellaneous organizations of the city as they desire to share some special treat with the public. Under the third head we find a few instances, notably at Armory Street and Acushnet Avenue, of civic clubs using the schoolhouses as a meeting place, and a girls' club using the East Union Street School. The civic clubs are voluntary bodies of the

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men of a neighborhood. The girls' club is under the direction of Miss Abbie Brownell, who is employed by the Women's Club. But these clubs serve a minute fraction of the city as a whole, and our school buildings, for the mort part, are idle and dark during the very hours when the workers of the community are seeking recreation and instruction. The need of the further use of schoolhouses is neither sectional nor factional. Meeting this need is not philanthropy; it is the opening of opportunities to all the people in buildings already erected by the money of the people themselves.

"Furthermore, the nature of this next development of our community life indicates that ultimately it must be directed and controlled by the city's regular educational departments. But, like our summer playgrounds and the summer manual training schools, now managed by the city, this movement must be started and supported for a time by private subscription and under a management of representative citizens.

"It must be apparent that this federation, as it is organized, represents only a part of our people and has neither the influence nor the means to further this work directly. There is no doubt that the principle of using the schoolhouses more widely is sound and that it will receive the approval of all our people, provided the work is organized and managed properly by a responsible, broad-minded board of citizens.

"Therefore this committee recommends that a citizens' committee or association be organized at once to further study the results of schoolhouse neighborhood centers in other cities and to establish such work in this city as may appear desirable.

"We also recommend that the delegates to this federation report to their respective clubs the resolutions for the establishment of neighborhood centers and our action thereon and arrange for a discussion of this movement that the public may become informed of the possibilities of this means of civic betterment.

"Arthur P. Irving, *Chairman.*"

CHANGING TEACHERS.

Every city has to face the problem of competition, losing efficient teachers who are able to secure higher remuneration

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elsewhere. The working of the recently enacted pension law will be watched with interest.

The observance on December 19 of the one-hundredth anniversary of the birthday of Charles Barrows, at the school named in his honor, held in memory of his forty-six years of service in the schools of Springfield, has called attention to the fact that the city has a worthy roll of teachers who, in the grammar schools at least, have held positions for a long term of years, and who deserve a significant place when we seek the causes which have contributed to the success of the Springfield schools.

An item which emphasizes the city's growth is found in the report for the year 1852, which states that the school appropriation for that year was $7,500. The year 1913 called for $600,211.

RETIRING MEMBER.

Mrs. Morgan retires from service on the Board at the close of this year. For nine years Mrs. Morgan has given her best thought to the welfare of the schools throughout the city. Ward five will lose a most efficient representative and the Board will miss her untiring efforts in the interests of all departments of school activity.

BOARD MEETINGS.

The meetings of the Board during the entire year have been uniformly characterized by a spirit of co-operation. It is safe to say that in this department of municipal administration there has been an entire freedom from anything savoring of partisanship and the relations to other divisions of the city government have been most harmonious.

Springfield has been fortunate in its succession of superintendents, Balliet, Gordy, and Van Sickle. Under these leaders the school system has held a front place in American educational

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endeavor. Its innovations have been copied, the courses of studies humanized, and all connected with the department inspired to work to maintain the high progressive ideals that have been the standards of the past.

Respectfully submitted for the Board,

G. H. HOWARD.

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ANNUAL REPORT

OF THE

SUPERINTENDENT OF SCHOOLS

To the School Board:—

In accordance with the requirements of your Rules and Regulations, I have the honor to present to you my report of the schools for the current year.

The following tables will serve to show statistically the present condition of the high schools, the elementary schools, and the kindergartens. These figures are taken from the reports of attendance for the months ending October 27, 1911, October 25, 1912, and October 24, 1913.

ENROLLMENT.

	1911.	1912.	INCREASE.	1913.	INCREASE.
High.....	1,834	1,892	58	2,081	189
Elementary....	11,705	12,170	465	13,178	1,008
Kindergarten..	966	1,165	199	1,145	20 (Decrease)
	14,505	15,227	722	16,404	1,177

AVERAGE NUMBER BELONGING.

	1911.	1912.	INCREASE.	1913.	INCREASE.
High.....	1,695.8	1,748.5	52.7	1,911.8	163.3
Elementary..	10,638.3	11,178.3	540.	11,900.1	721.8
Kindergarten	678.3	888.2	209.9	870.6	17.6 (Decrease)
	13,012.4	13,815.0	802.6	14,682.5	867.5

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NOTE:—The average daily attendance for the month of October, 1913, was smaller than usual because of the large number of absences caused by the Jewish holidays during the month. The average number belonging in September was 15,424.9 and the average daily attendance for September was 14,726.9 and the per cent. was 95.4. The per cent. in October was 92.6.

The recent notable increase in the population of the city has been reflected in the increased enrollment in the schools. During the past two years, the years of greatest growth, no schoolhouses have been built, the Sumner Avenue School opened two years ago having been the last to be turned over to the School Department. It should not cause surprise, then, that the demands of the School Board for increased accommodations at the present time are large. The need has become almost equally urgent in several sections of the city. Rooms originally intended for recitation purposes only have had to accommodate permanent classes and even basement rooms have been put to temporary use as class rooms. Resources of this kind having now been exhausted, recourse must be had to portable schoolrooms to relieve congestion during the period required for the erection of permanent structures. A glance at the statistics of increased enrollment will suggest that those charged with responsibility for providing school buildings could not have anticipated the exceptional growth in population of the past year. Indeed there was nothing in the statistics of enrollment prior to 1912 to suggest the need of more than ordinary activity in schoolhouse construction. But now the facts are so plain that he who runs may read the necessity of redoubled activity. The average annual increase in school enrollment for the first eight years of the decade, 1903 to 1913, was 441; for the last two years, according to the above table, the average increase has been 949.

The forecast of needs made by the School Board a year ago is now seen to understate the facts rather than to exaggerate

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the needs of the department. As regards the elementary schools, the actual fact is that we are two years behind in schoolhouse construction.

These details are not set forth in any complaining spirit. The situation in which we find ourselves is one that is characteristic of all cities during periods of rapid growth, and the extraordinary expenses incurred in catching up after the need is realized must be taken as a part of the penalty attached to great prosperity. The buildings either planned or actually in process of construction,—the High School of Commerce, the Buckingham, and the new Hooker,—will go far in relieving the present congestion. It is a matter for congratulation, too, that these buildings are so planned as to respond not only to the latest demands for regular school work, but also for community use.

The current year has been marked by that energetic team work and the professional zeal of the teaching force which has long been characteristic of the Springfield schools; and in addition by three or four enterprises to which a few paragraphs may properly be devoted.

MODERN LANGUAGE STUDY IN THE GRADES.

Last June the School Board authorized the Superintendent to suggest a plan for introducing the optional study of a modern foreign language into two of the grammar grades, so that pupils who will continue their education through the high school may, if their parents so desire, begin their foreign language study at an age when facility is more quickly acquired than in high school years.

It has long been recognized that the right age for beginning the study of a modern foreign language is much lower than the age at which pupils generally enter the high school. The difficulty of providing for large numbers of children thoroughly good instruc-

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tion in such subjects is doubtless one reason why studies which are admittedly appropriate are not generally offered in the grammar grades. Another reason, equally obvious, is that the studies already in the course furnish sufficient work for most children. The addition of a foreign language for all would diminish the efficiency of the work of some. In several cities a middle course has been followed. Those pupils whose scholastic records show that they have full work in covering the regular curriculum are not asked to do more. Those whose records indicate power to do more without overcrowding are given the opportunity.

This is the plan which was decided upon in Springfield. In September the opportunity to take German as an extra study was offered to groups of pupils in the VIII A, VIII B and IX B grades selected on the basis of their previous scholarship. In five grammar schools 433 pupils thus selected are pursuing the study. In one grammar school on account of local conditions French was offered instead of German and 30 pupils are studying this language. The plan under which the work is conducted provides for the completion of one year's work, measured by high school standards, in two years. This allows time to do the work in a more leisurely way than is possible when preparation for college must be crowded into the high school years, and in a better way, for the method used with the beginners can be largely oral, the formal grammar of the language being attacked after some facility and corresponding interest have been assured. After two years of study under teachers who have a ready command of the language, and who use it exclusively in their class instruction, these pupils will enter the high school with a far better preparation for second year German than they could possibly secure by the more usual course. This statement is based on experience elsewhere with pupils of the same age and grade. The 463 pupils in the modern language classes in our grammar grades are pursuing the op-

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tional study with such enthusiasm that there can be no doubt that all of the benefits realized by pupils elsewhere under the plan will be realized by them. They will make a considerable saving in time in completing the high school course, and they will have a better command of the language than it is possible for those to have who begin the study two years later. At mid-year 145 pupils to be promoted from the VII A to the VIII B grade will begin the study and at that time the enrollment in the elementary modern language classes will be 608.

FITTING THE WORK TO THE CHILD.

For many years the Springfield schools have given especial attention to those differences in individual capacity which are presented in the usual school enrollment. The few children who were positively feeble-minded have been cared for in a special class at the Carew Street School. Grammar preparatory classes have been maintained for the purpose of giving the non-English speaking immigrants of school age that preliminary instruction in English needed to enable them to enter the grade appropriate to their age. These classes have also been utilized for children who for various reasons were misfits in the regular classes.

This year an additional special class for the feeble-minded has been opened at the Central Street School and an additional grammar preparatory class. A special class of another type has been found necessary and consequently a class known as a Practical Arts Class has been opened at the Chestnut Street School. Of this class more will be said later.

THE CONSULTING PSYCHOLOGIST.

Prior to 1912 we had no facilities for determining with certainty the particular kind of training that was needed by chil-

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dren presenting mental peculiarities. Last year Dr. George E. Dawson began a scientific examination of the most conspicuous cases. It is gratifying to note that this year is marked by the official installation of the Psychological Laboratory under Dr. Dawson's management as a regular and permanent part of our administrative machinery.

THE VISITING TEACHER.

Given the consulting psychologist with a laboratory properly equipped and a file of his records of cases, how shall his recommendations be put into effect? There are at least three ways, and they may all be found in operation, singly or in combination; the written or printed communication is not very effective in getting things done in any home; the regular teacher has duties that preclude the giving of enough of her time in calls to get results; the visiting teacher is the one person who can fully meet the situation. Through the interest and co-operation of the Women's Alliance of the Church of the Unity we are this year without charge to the city having the services of a Visiting Teacher, who makes a most effective connection between the School and the Laboratory and the home to which the special child belongs.

In Rochester, N. Y., this teacher is employed by the School Board; in Hartford, Conn., she works under the direction of the Superintendent of Schools; in Boston, under the auspices of the Ellis Memorial Settlement; in New York City a number of visiting teachers are paid by the Public Education Association.

In Rochester the function of the visiting teacher is thus defined:—

"The appointment of a Visiting Teacher is an attempt on the part of the school to meet its responsibility for the whole welfare of the child. There are few of the children in our schools who are suffering through the willful neglect and abuse of parents. Whatever suffering comes for which the home is

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NAME OF CHILD | Date Opened | Case No.
DATE AND PLACE OF BIRTH | Date Closed

PERSON IN PARENTAL RELATION
Name Address
CASE REPORTED BY:
REASON FOR INVESTIGATION: (a) Scholarship (b) Conduct (c) Attendance (d) Lateness (e) Advice or information (f)

CHILD

MENTAL CONDITION	DATE	SOURCE OF INFORMATION	PHYSICAL CONDITION	DATE	SOURCE OF INFORMATION	GENERAL CHARACTERISTICS (Habits, Associations, Occupations, Amusements, etc.)
Bright			Previous Diseases			
Average						
Slow			Normal			
Dull			Defective as follows:			
Defective			Vision			
			Hearing			
			Teeth			
			Tonsils			
			Adenoids			
Emotional Constitution			Palate			
			Orthopedic			
			Pulmonary disease			
			Cardiac disease			
			Chorea			
			Malnutrition			

SCHOOL

History

CONTEMPORARY SCHOOL RECORD

School	Date	Grade	Absent	Late	Conduct	Work	Esp. Efficiency	Esp. Deficiency	School	Date	Grade	Absent	Late	Conduct	Work	Esp. Efficiency	Esp. Deficiency

RECORD SUBSEQUENT TO ACTION

School	Date	Grade	Absent	Late	Conduct	Work	Esp. Efficiency	Esp. Deficiency	School	Date	Grade	Absent	Late	Conduct	Work	Esp. Efficiency	Esp. Deficiency

HOME AND NEIGHBORHOOD

PARENTS: (a) Nationality-F. M. (b) Years in U. S. A.-F. M. (c) Speaks English-F. M. (d) Religion-F. M.
ATTITUDE OF PARENTS TOWARD CHILD:
ATTITUDE OF PARENTS TOWARD SCHOOL:
CONDITION OF HOME:
OCCUPATION OF FATHER: MOTHER:
CHILDREN: No. In School: Working:
HOME INFLUENCES: (Adverse or Favorable)
NEIGHBORHOOD INFLUENCES: (Adverse)
SOCIAL AGENCIES: (Already connected with case)

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AT TIME OF REFERENCE	SUBSEQUENT TO ACTION
CAUSES FOR REFERENCE OF	ESTIMATE OF
OBSERVATION OF VISITING TEACHER	ESTIMATE OF
SUGGESTIONS OF PSYCHOLOGIST	

HISTORY OF CASE

Signed ..... Visiting Teacher

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responsible, comes largely through ignorance or necessity. It will be the function of the Visiting Teacher to enlighten and to aid in relieving. Her aim will be to secure the maximum co-operation between the home and the school. Through such a teacher the school is by no means usurping, but it is rather stimulating and encouraging the home to meet to the limit of its power its full share of the responsibility for the welfare of the child."

In New York the services of the visiting teacher are emphasized thus:—

"The Visiting Teacher, carefully selected for her qualities of tact, judgment and social training, stands at the teacher's right hand with the time and the equipment to work out adjustments between home and school. She completes the school staff and is an important factor in insuring to each little child in New York the full opportunities of education."

In Springfield the visiting teacher works in close co-operation with the director of the psychological laboratory. Thus far her work has been fourfold: the consideration of candidates for examination by Dr. Dawson; the following up of such candidates after examination according to recommendations made; the study of cases not properly needing Dr. Dawson's examination, yet in which the child is a problem that belongs neither to the attendance officer nor the school nurse; and the preparation of a system of record keeping. Notification of cases needing the attention of the visiting teacher is made by means of this blank:—

"To the Visiting Teacher.
Please call at Room————————
School to see Miss————————
about————————
Residence of pupil————————St.
These notices to be sent to the Principal's Office."

The history of each case is recorded on the opposite form:—

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THE FUNCTION OF THE PSYCHOLOGICAL LABORATORY.

The controlling purpose in such an investigation of school children as Dr. Dawson is making is to study the concrete problems of the children's failures to profit by the education provided for them in the public school. It is at once a purpose comprehending the vital interests of the child and the equally vital interests of the public school system and the community. It is found that children's failures in school work fall under three general heads: (1) those due to physical causes (about 45%); (2) those due to the school work not being adapted to the pupil (about 30%); and (3) those due to mental and moral causes (about 25%).

The apparatus and methods employed in testing children have been assembled and worked out in accordance with the needs disclosed by these three types of children. They fall under the following general heads: (1) vitality tests; (2) test of nervous condition and motor control; (3) tests of the degrees of sensitiveness of the various sense organs; and (4) tests of mental condition. In addition to these tests, efforts are made through the visiting teacher to find out all that can be learned about the child's life outside of school, in order to help in the conclusions suggested by the laboratory tests. Through the visiting teacher also each case is followed up as completely as possible. Physical cases are referred to the proper medical authorities for final examination and treatment; cases of maladjustment to school work are referred to the school authorities for such treatment as may be possible; and mental and moral cases are referred to parents and others whose interest and authority are involved in disposing of them to the best advantage of the children and the community.

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THE PRACTICAL ARTS CLASS.

Dr. Dawson's researches in the Psychological Laboratory have emphasized the need of special provision for pupils who though not defective in intellect are object-minded and unable to deal effectively with symbols and who are consequently handicapped in their progress through the course of study, which is somewhat traditional and best fitted for those children who can readily gain ideas from the printed page.

For these object-minded children, the practical arts class is believed to have marked advantages. Such a class for boys has been organized experimentally at the Chestnut Street School. Three hours of fundamental work in the "Three R's" take up the morning, and two hours in the afternoon are given to practical hand work. Thus far carpentry and masonry have occupied the attention of the class. They have nearly completed a bicycle shed. Next the boys will have some work involving real vocational experience in metal, shoe-repairing, foundry work and printing. Strong emphasis is placed on practical drawing.

For those children, whether object-minded or symbol-minded, who must leave school as soon as they reach the age of fourteen, the practical arts class gives promise of furnishing a better life preparation than the ordinary class. It possesses the evident advantage of giving a varied if brief vocational experience that should help in choosing a life occupation. The class might with propriety be called a class for vocational guidance. The practical arts class is not a duplication of the trade school. The trade school cannot receive boys and girls under fourteen years of age. The work of the practical arts class differs from that in the ordinary manual training classes in the greater variety of materials dealt with, in the increased time devoted to the practical work, and in the approach to the morning academic work through the projects upon which the pupils devote their afternoons.

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THE OPEN-AIR SCHOOL.

It is a matter for congratulation that the referendum vote recently taken in the city will, through contemplated action by the City Council, permit the School Department to supply food and care to the pupils of this school, thus taking over the function heretofore exercised by the Society for the Prevention of Tuberculosis.

The human mechanism cannot reach its full efficiency unless all of the parts are in good working order, and more and more school boards are planning to give the child's body the first consideration instead of the last. This is seen in the provision now generally made for medical inspection and supervision, in the increased emphasis given to physical training, in the provision of the dental clinic and the school nurse. This is seen also in the wide vogue of the open-air school for children of low vitality, and the partially heated open-window room for the less pronounced cases, as well as for children in a normal state of health. As generally managed, the only difference between the ordinary class room and the open-window room is that in the latter the windows are kept open in all weathers. There is no modification of the school program in the case of the open-window room; it is merely a successful attempt to improve school conditions for the normal child.

The open-air school, on the other hand, is practically the same everywhere. It is designed for children handicapped by physical weakness, children whose needs are greater than those of normal children. The successful treatment of the anemic child, predisposed to tuberculosis, depends on more than fresh air, though that is a vital factor. He must have during the day plenty of nourishing food, a period of absolute relaxation, and a freedom from constraint that is incompatible with large classes in indoor schoolrooms. In the open-air schools, therefore, each teacher has charge of about half as many children as are assigned to the ordinary schoolroom and three meals are

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served to the pupils daily between the hours of 8.45 A.M. and 4 P.M. Each child is supplied with a cot upon which he takes his noonday rest, two army blankets and felt boots for use in very cold weather. Shower baths are administered under the direction of the visiting physician. The program makes liberal provision for physical exercise and free play, and in general the children enjoy a greater degree of freedom than is possible under the ordinary school conditions. This sort of school is expensive, but not many open-air schools are needed in any city. A city of 100,000 inhabitants like Springfield might to advantage maintain two or possibly three.

The open-window school, on the other hand, may be multiplied indefinitely without added expense, for it is a neighborhood school. The children are within walking distance of it and they go home to their meals. Usually some heat is applied in the coldest weather—enough to maintain a temperature of 50 or 60 degrees. Rain or snow may be kept out by means of cheese cloth tacked over the upper half of the window frame. The chief obstacle to the wider use of the open-window plan seems to be the objection of the few. It is not a question that can be decided by majorities. If 39 parents approve and one objects, the windows must remain closed unless the child of the objector can be transferred without loss of grade, an adjustment not always easy to make. The utility of our expensive heating systems, with their elaborate provision for forced ventilation, is being seriously questioned in these days by not a few architects and engineers of repute, yet the average parent hesitates to give his assent when the teacher proposes to throw open the windows and let in the air.

PHYSICAL TRAINING.

Certain features of the work of the physical training department during the past year are noteworthy. A complete set of folk dances has been introduced into all the grades. A

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scheme of efficiency tests for boys has been installed, and a similar test is being planned for the girls.

The work in soccer football during the year has been very gratifying. The grammar school soccer football league includes seven teams, and in addition seven grade schools are using soccer football as "after-school" work.

Springfield is fortunate in being able to secure young men from the Y. M. C. A. College to carry on the work in the Public School Athletic League, and we are getting excellent results from this system.

The installation of gymnasiums in grammar school buildings is a new feature of our work. A complete set of apparatus has been installed in the Buckingham School, to be used after the holidays by the boys and girls of that school. The plans for the two new schools, the Hooker and the Buckingham, include gymnasiums.

The plans for the two gymnasiums in the new High School of Commerce when carried out will give to Springfield as fine an equipment for physical training as can be found in this section of the country.

NATURE STUDY.

The department of Nature Study, though laboring under the disadvantage of having the long vacation come in to interrupt its work just in the midst of the growing season, has done much to encourage the growing of plants. If the school of horticulture recommended by the supervisor last year could be established, it would furnish inspiration and a model; and it would serve as a means of instruction to teachers and pupils not directly associated with the school. Its teachers would serve during the summer vacation and thus be on duty during the growing season when school and home gardens most need supervision. This summer supervision might be secured thus through the school of horticulture, or through an assistant in

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the department of nature study, whose duties would include the vacation months, or by the adoption of a plan similar to that in operation in Superior, Wisconsin.

In that city a young man is employed as grammar grade teacher in each large school, who is playground leader at school, takes care of evening activities in the school three evenings each week, and has charge of playground or gymnasium on Saturday. These young men also have charge of home garden work and playgrounds all summer long. They are employed for twelve months in the year.

Considerable doubt has been entertained whether a school of horticulture located in the suburbs of a city would attract pupils. It seems unlikely that this question can be settled except on the basis of trial. That there is active and widespread interest in the utilization of our agricultural and horticultural resources at the present time cannot be questioned.

THE ADMINISTRATIVE OFFICES.

The new offices of the School Department have been in use two months. Both in attractiveness and convenience they present a strong contrast to the quarters at 47 Vernon Street, so long the center of school activities. If choice had to be made between commodious and attractive schools for the children and appropriate housing for the offices of the Board, there could be no hesitation in deciding that the needs of the schools are paramount, but fortunately such a choice need no longer be made. The city has now given the School Department a group of offices which in their location, their size, and their furnishings suggest the high regard in which the schools are held in the community.

Respectfully submitted,

JAMES H. VAN SICKLE,

Superintendent of Schools.

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REPORT

OF THE

ASSISTANT SUPERINTENDENT OF SCHOOLS

Superintendent James H. Van Sickle.

DEAR SIR: The most notable features in the history of the year from the standpoint of the School Department are, first, the part that the schools and the children of Springfield have had in the exercises connected with the dedication of the city's new municipal buildings; and, second, the removal of the school administration offices from the dingy old dwelling house on Vernon Street, in which they were "temporarily" located for twenty-two years, to the commodious and admirably equipped quarters assigned to them in the new Administration Building. The importance to the schools of the improved facilities afforded by the new offices is so evident that it needs no emphasis, but the participation of the school children in the dedicatory celebration calls for more than passing comment.

The committee in charge of the dedication exercises, in conference with the Mayor of the city and the Superintendent of Schools, planned a program extending through several days and unique in many of its features. It made an appeal to old and young alike and included a remarkable municipal exhibit; a very large and comprehensive school exhibit; an afternoon entertainment by school children, made up of songs, calisthenics, folk-dancing, and stereopticon and moving pictures of school activities; several fine band concerts; and an address by Ex-President William H. Taft.

The school entertainment and the meeting addressed by Mr. Taft were held in the great Auditorium which accommo-

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dates 4,000 people. The interest in the children's exercises was so great that it was deemed expedient to repeat them on the evening of December 11.

The day school exhibit occupied almost the entire fourth floor of the new Administration Building, the work of the evening schools and of the psychological laboratory being exhibited in the rooms of the School Department on the second floor. The exhibition was open to the public during a period of eleven days, from December 8th to 18th, inclusive, and it is estimated that it was visited by over 80,000 people, more than ten times as many people as attended an important exhibit of the work of the schools held in 1889 in Armory Hall on State Street, and several times the number attending the school exhibit of fourteen years ago in the old City Hall.

EXTENT OF THE EXHIBIT.

The task of collecting and mounting the work of the pupils was assigned to various committees made up of supervisors, principals, and teachers, whose greatest problem proved to be the fitting of a wealth of material into the space assigned to a given subject, or department.

The specimens of work were mounted on screens and tables in a long room surrounding the open court of the Administration Building. The exhibit covered 5,647 square feet of table and screen space, or the equivalent of a strip more than a mile long and one foot in width.

Under the direction of Mr. E. E. MacNary, the supervisor of vocational and manual work in the elementary grades, the boys of the Vocational School constructed and covered the screens for the entire display, and the boys in the ninth grades, who are studying the art of printing in the school shops, printed 15,000 invitations that were distributed to parents with a view to arousing public interest in advance of the event.

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THE ATTITUDE OF THE PRESS.

The following extracts from two of the local papers indicate the attitude of the press and the public with regard to this portion of the dedication program.

"One of the interesting features of the municipal celebration will be the public school exhibit, which will show the excellent results of the modern system of education as adopted by the school department officials. The large hall on the top floor of the office building, where the school exhibit is to open to-morrow, is completely filled with an amazing variety of school material, and visitors, who have seen the exhibits which are now in place in preparation for the opening to-morrow, pronounce it the very finest thing of the kind ever seen in Springfield, if not in the entire country. The orderly way in which everything is arranged commands admiration, for in systemizing the displays according to grades the committee in charge has made it possible for a visitor to follow the work of the children, in order, from the kindergarten through the high schools. From the moment of entrance to the exhibition until the last work of the students has been inspected the trip is one of instruction, interest, and fascination."

"If one has any doubt about what Springfield thinks of education in general and of its public school system in particular, he should note the keen interest stirred by the exhibit of the school department shown in the Administration Building during the past week. The large chart drawn to give the people an idea of where their money is being spent by the city government showed that the schools take more than any other department. Springfield people recognize this as a proper spending of the city's money. In a sense it is being put out for insurance of the best sort, insuring to the city in future years citizens properly trained to carry it on, protecting what has been conserved for them by careful parents and carrying the city on to greater prosperity. All the way through, from the sand tables by which little folks learn the first principles of geography and geology, up to the design crafts work of the high school pupils, the school exhibition was impressive, emphasizing the fact that the school work of this city is both wisely laid out and well done. Those who ask for the practical in school

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training found plenty of it here, perhaps because the results of practical training can be more easily seized upon for exhibition purposes, being tangible in the products of cooking classes, millinery, manual and vocational courses. It is good for a city to have citizens who are thus interested in what its schools are doing and who thus eagerly seize upon an opportunity to learn more about the advantages that are afforded the growing youth."

PRACTICAL TREND OF WORK.

Throughout the exhibit the various school activities were fully and definitely illustrated, from the first attempts of kindergarten children, in building with blocks and modeling with clay, to the finished products of the high schools and the Vocational School, involving work in cookery, dressmaking, millinery, pottery, manipulation of metals, embossed leather work, wood turning, and construction in wood and cement.

From first to last the exhibit evidenced the effort of the new education to bring the teaching of the schools into touch with life.

The work in Nature Study, arranged by grades in order to show its correlation with other subjects, was a striking comment upon the difference between the old time book-study of natural science and the present-day laboratory method. This difference was still further emphasized in the science work of the high schools, which gave evidence of the practical application of scientific principles to the problems of the shop, the factory, and the home.

Twenty years ago drawings were made with no immediate purpose in view and they were consequently of small interest to teachers or pupils. To-day the practical and decorative value of drawing is emphasized in every grade, and children are afforded many opportunities to use their skill in drawing, modeling, paper cutting, and painting. They are encouraged to make their own designs and apply them to doll house furnish-

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ings, Christmas boxes, calendars, and many other things. Later in the course original designs are applied to curtains, rugs, articles of clothing, pottery, jewelry, etc.

The use of block printing adds interest to the routine work with the printing presses and the printed leaflets displayed in a section of the ninth grade exhibit illustrated the advantage resulting from a close co-ordination between the work in English and the work in drawing.

The practical trend of modern instruction was plainly indicated in every division of the high schools exhibit. Live, worth-while problems had been attacked with a will by the pupils of these schools and the results were interesting and impressive.

The "project" plan, as illustrated in the section devoted to the Vocational School, was universally approved by the practical workmen who visited the exhibit, showing as it did the businesslike way in which the boys proceed to work out a given project.

EVENING TRADES SCHOOLS.

The work of the Evening Trades School exemplified the very practical character of the work that is engaging the attention of its students, although little more than a hint could be given of the results of the instruction in drawing, forging, plumbing, electric wiring, dressmaking, millinery, and household decoration.

SEWING AND COOKING.

The work in cooking and sewing, in grades and high schools alike, was highly commended. In this connection a brief extract from the report of the School Committee for 1884, the year in which sewing was first introduced into the schools, is of interest. Mr. O. M. Baker, who writes the report, makes the

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following comment regarding what was at that time a great innovation:—

"In every sense we think the introduction of sewing has been attended with very satisfactory results. While it seems not to detract from other work in the school, it does teach the girls an accomplishment of the greatest usefulness, and one without which it is a misfortune for any girl to grow up to womanhood. . . . With the exception of drawing, which is eminently practical when properly taught, sewing is the only branch of industrial training, strictly so called, that we have in our schools."

It must be evident to the most casual observer of the recent school exhibit that we have traveled a long way in the direction of school instruction in the manual arts since the report for 1884 was written.

ACADEMIC WORK.

It may be said with emphasis, as in 1884, that the hand work, far from detracting from the regular academic work of the school, has added to it the joy of concrete expression.

The work exhibited in English, arithmetic, history, geography, and writing was markedly good and bore comparison with anything done in the past, although the schools have, in these days, the added task of educating an ever-increasing percentage of foreign born children.

THE PSYCHOLOGICAL CLINIC.

The public evinced marked interest in the apparatus employed by Dr. George E. Dawson, examining psychologist for the schools, for the tests used in discovering the physical and mental capacities and defects of children. The outfit for the psychological laboratory includes machines for testing lung

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power, sight, hearing, strength of grip, etc., also various devices for determining the mental and nervous condition of children.

The fact that this provision for the scientific study of the capacities and peculiarities of individual children has met with the approval of the public is a significant comment upon the modern tendency to delegate to the school certain responsibilities that in the past were held to be strictly the province of the home.

The entire exhibit, indeed, was an illuminating exposition of the difference in many essential respects between the new and the old in public school education.

Respectfully submitted,

BERTHA M. McCONKEY,

Assistant Superintendent of Schools and Supervisor of Primary Schools and Kindergartens.

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STATISTICS

ACCOMPANYING

Superintendent's Report.

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FINANCIAL STATEMENT

FOR THE FISCAL YEAR ENDING NOVEMBER 30, 1913.

Valuation of the city, 1913,.....		$169,640,484.00
Value of school buildings, land, and furniture,.....	$3,515,718.09	
Value of books, supplies, and apparatus,	120,140.48	
Kindergarten equipment and supplies,..	3,648.42	
Technical School equipment, materials,	33,613.33	
Cooking School equipment and supplies,	3,570.22	
High School of Commerce equipment and supplies,.....	7,350.43	
Vocational School equipment and supplies,.....	11,728.43	
Tools and furniture in hands of Schoolhouse Agent,.....	948.50	
Janitors' supplies, Schoolhouse Agent,...	385.81	
Fuel on hand,.....	13,200.00	
Total value of school property,.....		$3,710,303.71

ORDINARY SCHOOLS.

Appropriation,.....	$447,870.00	
Transfer from Cooking Schools,.....	1,000.00	
Money advanced for office expenses,....	100.00	
		$448,970.00
Expenditures, as below,.....	$448,419.60	
Return of money advanced for office expenses,.....	100.00	
Balance unexpended,.....	450.40	
		$448,970.00

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EXPENDITURES.

SALARIES.

Day School teachers,	$370,154.90	
Evening School teachers,	12,232.00	
		$382,386.90
Superintendent,	$5,000.00	
Chief Clerk,	2,200.00	
Clerical assistance,	2,452.17	
Attendance officer,	1,400.00	
Attendance officer's assistant,	1,200.00	
Attendance officer, evening schools,	170.00	
Clerical assistance at High School,	803.75	
Clerical assistance at Evening High School,	108.50	
Clerical assistance at Evening Primary and Grammar School,	7.00	
Clerk School Committee,	100.00	
Clerical assistance at Chestnut Street School,	460.00	
		$13,901.42

BOOKS, ETC.

Regular text-books,	$7,088.74	
Supplementary text-books,	637.30	
Book covers and book mending materials,	2,230.51	
Binding books,	2,363.61	
Reference books,	658.61	
		$12,978.77

PAPER, ETC.

Writing paper,	$3,581.17	
Drawing paper,	821.74	
Notebooks and spelling blanks,	627.46	
Bookkeeping paper and blanks,	242.08	
Manila practice paper,	1,053.70	
Amounts carried forward,	$6,326.15	$409,267.09

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Amounts brought forward,.....	$6,326.15	$409,267.09
Envelopes,.....	185.70	
Blotting paper,.....	112.69	
Pressboard and cardboard,.....	546.88	
Tracing paper,.....	156.25	
Miscellaneous paper supplies,.....	313.16	
		$7,640.83

MISCELLANEOUS SUPPLIES.

Ink,.....	$211.85	
Paste, mucilage, and glue,.....	92.60	
Pens and holders,.....	564.72	
Lead pencils,.....	800.75	
Drawing pencils,.....	102.00	
Water color paints,.....	600.70	
Paint pans, cups, and brushes,.....	97.48	
Colored drawing crayons,.....	266.95	
Miscellaneous drawing supplies,.....	161.93	
Thumb tacks and paper fasteners,.....	105.60	
Rubber erasers,.....	283.75	
Crayon,.....	92.25	
Blackboard erasers,.....	145.00	
Sponges,.....	677.54	
Rules,.....	55.80	
Miscellaneous supplies,.....	511.00	
Hygiene supplies,.....	69.55	
Kindergarten materials,.....	45.25	
Sewing supplies,.....	72.12	
Laboratory supplies, Central High School,.....	863.57	
Laboratory assistance, Central High School,.....	61.12	
Elementary science supplies,.....	202.41	
		$6,083.94

PERMANENT EQUIPMENT.

Science apparatus, Central High School,.	$1,140.76	
Elementary science apparatus.....	6.24	
Maps, charts, and globes,.....	145.07	
Amounts carried forward,.....	$1,292.07	$422,991.86

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Amounts brought forward,.....	$1,292.07	$422,991.86
Drawing boards,.....	120.40	
Miscellaneous drawing equipment,.....	89.75	
Compasses,.....	55.00	
Rugs,.....	76.50	
Scissors,.....	112.00	
Pencil sharpeners,.....	61.20	
Pianos,.....	585.00	
General equipment,.....	548.29	
Rugs for office,.....	420.61	
Office equipment,.....	125.62	
		$3,486.44

MANUAL TRAINING.

Equipment,.....	$546.44	
Material and supplies,.....	3,316.86	
Sundries,.....	457.43	
		$4,320.73

PHYSICAL TRAINING.

Equipment,.....	$1,054.19	
Supplies,.....	61.89	
Rent of athletic quarters,.....	180.00	
Sundries,.....	663.10	
		$1,959.18

PRINTING.

Annual report and school manuals,.....	$806.08	
Teachers' report blanks and record books,.....	313.08	
Office blanks, blank books, and stationery,.....	263.61	
Courses of study,.....	241.84	
Schedule of recitations,.....	84.36	
Evening School blanks and notices,.....	51.56	
Graduation invitations, programs, etc.,	136.35	
Miscellaneous.....	471.79	
		$2,368.67
Amount carried forward,.....		$435,126.88

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Amount brought forward,.....		$435,126.88

SUNDRIES.

Matrons' services in bath rooms,.....	$2,493.85	
Transportation of pupils,.....	1,230.00	
Expense of compiling school census,....	700.00	
Advertising,.....	90.69	
Postage and telegrams,.....	588.35	
Telephones,.....	1,119.97	
Freight and express,.....	318.94	
Delivering supplies to schools,.....	1,350.48	
Assistance delivering supplies,.....	1,104.75	
Traveling expenses,.....	246.35	
Carriage hire,.....	45.50	
Tuning, repairing, and moving pianos,	93.35	
Graduation expenses,.....	319.34	
Engrossing diplomas,.....	137.97	
Drawing assistance and models,.....	75.00	
Newsboys' badges,.....	5.48	
Rent of storage quarters,.....	100.00	
Office supplies and incidentals,.....	396.93	
Incidentals,.....	138.55	
		$10,555.50

JANITORS' SUPPLIES, ETC.

Brooms, brushes, and dusters,.....	$355.79	
Mops, mop rags, etc.,.....	90.80	
Paper towels,.....	949.75	
Soap, washing powders, etc.,.....	379.31	
Disinfectants,.....	102.00	
Toilet paper,.....	241.73	
Laundry,.....	360.39	
Flags and repairing,.....	55.75	
Shovels, pails, dustpans, baskets, etc.,	189.71	
Incidentals,.....	11.99	
		$2,737.22
		$448,419.60

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TECHNICAL HIGH SCHOOL.

Appropriation,		$73,000.00
Expenditures, as below,	$72,960.41	
Transfer to High School of Commerce,	10.00	
Balance unexpended,	29.59	
		$73,000.00

EXPENDITURES.

Salaries of teachers,		$53,894.43
BOOKS.		
Text-books,	$1,560.87	
Reference books,	9.46	
		$1,570.33
SUPPLIES.		
Laboratory,	$333.29	
Drawing,	768.06	
Machine shop,	198.86	
Forging,	135.84	
Woodwork,	117.22	
Household arts,	59.40	
Household science,	81.61	
Arts,	128.38	
Miscellaneous,	613.12	
		$2,435.78
PERMANENT EQUIPMENT.		
Laboratory,	$674.31	
Drawing,	351.37	
Machine shop,	66.02	
New machine shop,	9,015.99	
Forging,	106.87	
Woodwork,	684.29	
Household arts,	120.73	
Household science,	75.36	
Arts,	103.82	
Design,	25.00	
General,	133.05	
		$11,356.81
Amount carried forward,		$69,257.35

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Amount brought forward,		$69,257.35
MATERIALS.		
Machine shop,	$247.08	
Forging,	103.71	
Woodwork,	420.87	
Household arts,	48.39	
Household science,	261.95	
Arts,	84.78	
		$1,166.78
SUNDRIES.		
Printing,	$430.20	
Freight, express, and postage,	204.48	
Clerical assistance,	750.00	
Tool-room assistants,	593.05	
Laboratory assistants,	49.80	
Drawing assistants,	43.05	
Household science assistants,	18.95	
Arts assistants,	13.15	
Design assistants,	5.20	
Repairs,	239.18	
Incidentals,	189.22	
		$2,536.28
		$72,960.41

EVENING SCHOOL OF TRADES.

Appropriation,		$5,666.00
Expenditures, as below,	$5,508.38	
Transfer to High School of Commerce,	150.00	
Balance unexpended,	7.62	
		$5,666.00

EXPENDITURES.

Salaries of teachers,	$4,828.26	
Materials, supplies, and equipment,	455.84	
Sundries,	224.28	
		$5,508.38

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HIGH SCHOOL OF COMMERCE.

Appropriation,	$28,000.00	
Transfer from Evening School of Trades,	150.00	
Transfer from Technical High School,	10.00	
		$28,160.00
Expenditures, as below,	$28,155.94	
Balance unexpended,	4.06	
		$28,160.00

EXPENDITURES.

Salaries of teachers,	$24,270.45	
Clerical assistance,	563.23	
Text-books,	1,004.24	
Reference books,	14.19	
Equipment,	438.20	
Miscellaneous supplies,	1,502.91	
Sundries,	362.72	
		$28,155.94

COOKING SCHOOLS.

Appropriation,		$5,675.00
Expenditures, as below,	$4,618.13	
Transfer to Ordinary Schools,	1,000.00	
Balance unexpended,	56.87	
		$5,675.00

EXPENDITURES.

Salaries of teachers,	$3,261.50	
Furniture and equipment,	167.25	
Groceries and provisions,	929.51	
Incidentals,	259.87	
		$4,618.13

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KINDERGARTENS.

Appropriation,		$26,000.00
Expenditures, as below,	$25,875.50	
Balance unexpended,	124.50	
		$26,000.00

EXPENDITURES.

Salaries of teachers,	$24,524.54	
Furniture and equipment,	663.99	
Miscellaneous supplies,	599.59	
Incidentals,	87.38	
		$25,875.50

VOCATIONAL SCHOOL.

Appropriation,		$14,000.00
Expenditures, as below,	$13,856.35	
Balance unexpended,	143.65	
		$14,000.00

EXPENDITURES.

Salaries of teachers,	$8,225.00	
Equipment,	2,068.32	
Books,	7.55	
Supplies,	1,403.95	
Rent, heat, power, etc.,	1,751.34	
Incidentals,	400.19	
		$13,856.35

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SUMMARY.

	Appropriations.	Transfers.	Appropriations, plus or minus Transfers.
Ordinary Schools,	$447,870.00	+$1,000.00	$448,870.00
Technical High School,	73,000.00	—10.00	72,990.00
Evening School of Trades,	5,666.00	—150.00	5,516.00
High School of Commerce,	28,000.00	+160.00	28,160.00
Cooking Schools,	5,675.00	—1,000.00	4,675.00
Kindergartens,	26,000.00		26,000.00
Vocational School,	14,000.00		14,000.00
Schoolhouse Repairs,	31,290.00	+5,792.00	37,082.00
Schools, City Property Com.,	98,775.00	—694.23	98,080.77
	$730,276.00	$5,097.77	$735,373.77

	Appropriations, plus or minus Transfers.	Expenditures.	Balances Unexpended.
Ordinary Schools,	$448,870.00	$448,419.60	$450.40
Technical High School,	72,990.00	72,960.41	29.59
Evening School of Trades,	5,516.00	5,508.38	7.62
High School of Commerce,	28,160.00	28,155.94	4.06
Cooking Schools,	4,675.00	4,618.13	56.87
Kindergartens,	26,000.00	25,875.50	124.50
Vocational School,	14,000.00	13,856.35	143.65
Schoolhouse Repairs,	37,082.00	37,072.32	9.68
Schools, City Property Com.,	98,080.77	96,671.77	1,409.00
	$735,373.77	$733,138.40	$2,235.37

RECEIPTS.

	Tuition.	Other Receipts.	Totals.
Ordinary Schools,	$5,216.03	$396.89	$5,612.92
Technical High School,	9,007.50	107.53	9,115.03
Evening School of Trades,	1,450.15	35.16	1,485.31
High School of Commerce,	2,446.50	47.00	2,493.50
Vocational School,	6,160.12	82.50	6,242.62
	$24,280.30	$669.08	$24,949.38

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Expenditures in the Schoolhouse Agent's department, and expenditures for New School Buildings and for Alterations and Permanent Improvements, are made by the Committee on City Property of the City Government, not by the School Board. They are included in this report as a matter of information and convenience.

SCHOOLHOUSE AGENT'S DEPARTMENT.

ORDINARY SCHOOLS.

Appropriation,	$98,775.00	
Appropriation, extra,	515.77	
		$99,290.77
Expenditures, as below,	$96,671.77	
Transfer to Schoolhouse Repairs,	1,210.00	
Balance unexpended,	1,409.00	
		$99,290.77

EXPENDITURES.

Agents' and clerks' salaries,	$2,866.47	
Janitors' salaries,	43,783.64	
Evening school janitors,	1,404.41	
Extra janitor service,	5,647.77	
Shoveling snow,	330.25	
Extra mopping,	181.50	
Extra mopping kindergarten floors,	392.20	
Custodian at Technical High School,	300.00	
Coal,	26,525.27	
Charcoal and wood,	456.08	
Electric lights and gas,	7,592.60	
Electric power,	2,546.64	
Lawns, tools, sidewalks, etc.,	1,348.51	
Physicians' scales,	521.00	
Cans,	146.46	
Sundry furnishings,	964.30	
Premium on boiler insurance,	135.00	
Appraising land,	200.00	
Automobile,	655.10	
Stationery and office supplies,	198.58	
Telephone rentals,	31.90	
Incidentals,	444.09	
		$96,671.77

SCHOOLHOUSE REPAIRS.

Appropriation,	$31,290.00	
Appropriation, extra,	4,582.00	
Transfer from Schools, City Property Com.,	1,210.00	
		$37,082.00
Expenditures,	$37,072.32	
Balance unexpended,	9.68	
		$37,082.00

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The expenditures chargeable to the different grades of schools are as follows:—

DAY SCHOOLS.

HIGH.

Teachers' salaries,	$48,292.75	
Clerical assistance,	803.75	
Text-books and book covers,	1,937.07	
Reference books,	117.37	
Writing paper, notebooks, etc.,	868.57	
Miscellaneous supplies,	449.35	
Laboratory supplies,	863.57	
Laboratory assistance,	61.12	
Science apparatus,	1,140.76	
Pianos, tuning, repairing, and moving,	5.50	
Miscellaneous equipment,	340.56	
Printing,	587.73	
Diplomas and graduation expenses,	399.02	
Postage, telegrams, and telephone,	115.29	
Physical training, supplies,	13.70	
Physical training, equipment,	558.44	
Physical training, sundries,	426.01	
Janitors' supplies,	404.93	
Laundry,	197.27	
Sundries,	187.38	
Proportion of general expenses,	2,155.94	
		$59,926.08

PRIMARY AND GRAMMAR.

Teachers' salaries,	$321,862.15	
Attendance officers.,	2,600.00	
Clerical assistance, Chestnut Street School,	460.00	
Text-books and book covers,	9,914.77	
Reference books,	571.24	
Amounts carried forward,	$335,408.16	$59,926.08

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Amounts brought forward,.....	$335,408.16	$59,926.08
Writing paper, notebooks, etc.,.....	6,624.57	
Miscellaneous supplies,.....	4,348.94	
Elementary science, supplies,.....	202.41	
Elementary science, equipment,.....	6.24	
Maps, charts, and globes,.....	135.07	
Physical training, equipment,.....	495.75	
Physical training, supplies,.....	48.19	
Physical training, sundries,.....	417.09	
Miscellaneous equipment,.....	1,363.48	
Manual training, equipment,.....	546.44	
Manual training, supplies,.....	3,316.86	
Manual training, sundries,.....	457.43	
Printing,.....	529.96	
Transportation of pupils,.....	1,230.00	
Matrons' services in bath rooms,.....	2,493.85	
Diplomas and graduation expenses,.....	158.64	
Janitors' supplies,.....	1,971.90	
Laundry,.....	163.12	
Pianos, tuning, repairing, and moving,..	87.85	
Sundries,.....	1,030.88	
Proportion of general expenses,.....	13,465.57	
		$374,502.40

EVENING SCHOOLS.

HIGH.

Teachers' salaries,.....	$4,244.00	
Clerical assistance,.....	108.50	
Text-books,.....	165.02	
Miscellaneous supplies,.....	217.84	
Printing and advertising,.....	65.82	
Diplomas and graduation expenses,.....	36.00	
Sundries,.....	59.90	
Proportion of general expenses,.....	182.77	
		$5,079.85
Amount carried forward,.....		$439,508.33

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Amount brought forward,.....		$439,508.33

PRIMARY AND GRAMMAR.

Teachers' salaries,.....	$7,988.00	
Assistant attendance officer,.....	170.00	
Clerical assistance,.....	7.00	
Text-books,.....	273.30	
Miscellaneous supplies,.....	92.50	
Printing and advertising,.....	49.59	
Proportion of general expenses,.....	330.88	
		$8,911.27
		$448,419.60

GENERAL EXPENSES.

Superintendent,.....	$5,000.00	
Chief Clerk,.....	2,200.00	
Clerical assistance,.....	2,452.17	
Clerk of School Committee,.....	100.00	
Printing,.....	1,063.07	
Advertising,.....	26.84	
Postage and telegrams,.....	442.56	
Freight and express,.....	299.11	
Delivering supplies to schools,.....	1,350.48	
Assistance delivering supplies,.....	1,104.75	
Traveling expenses,.....	246.35	
Carriage hire,.....	45.50	
Rugs for office,.....	420.61	
Equipment,.....	125.62	
Newsboys' badges,.....	5.48	
Compiling school census,.....	700.00	
Office supplies,.....	168.81	
Rent of temporary storage,.....	100.00	
Incidentals,.....	283.81	
		$16,135.16

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COST PER PUPIL.

(Based on average number belonging.)

SCHOOLS.	Teachers' Salaries.	Text and Reference Books.	Supplies and Equipment.	Gen'l Expenses and Miscellaneous.	Total Cost per Pupil.
Central High School	$69.29	$2.95	$8.39	$5.35	$85.98
High School of Commerce	52.99	2.22	4.23	2 02	61.46
Technical High School	73.62	2.13	4.97	3.46	84.18
Primary and Grammar	27.51	.90	1.76	1.84	32.01
Evening High School	8.62	.34	.58	.79	10.33
Evening Prim. and Gram.	9.72	.33	.17	.62	10.84
Average for day schools	$33.06	$1.12	$2.36	$2.12	$38.66
Average for evening schools	$ 9.30	$0.33	$0.32	$0.69	$10.64
KINDERGARTENS	$25.98		$1.34		$37.32

TECHNICAL HIGH SCHOOL.

(Average number belonging, 708.)

ACCOUNT OF THE SCHOOL COMMITTEE.

	Salaries.	Text-Books.	Materials and Supplies.	Sundries.	Totals.
Academic Department	$42.77	$2.13	$0.88	$1.14	$46.92
Mechanical Department	30.85		4.09	2.32	37.26
Totals	$73.62	$2.13	$4.97	$3.46	$84.18

EVENING SCHOOL OF TRADES.

(Average number belonging, 492.)

Salaries.	Materials and Supplies.	Sundries.	Total.
$11.40	$1.08	$0.53	$13.01

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GENERAL STATISTICS

POPULATION.

Population of the city, 1910 (United States Census), 88,926
Population of the city, 1913 (Assessors' Estimate), 100,877

SCHOOL CENSUS.

Number of children in Springfield between five and sixteen years of age, Sept. 1, 1913, 16,855

Distributed as follows:—

Ages.	5 yrs.	6 yrs.	7 yrs.	8 yrs.	9 yrs.	10 yrs.	11 yrs.	12 yrs.	13 yrs.	14 yrs.	15 yrs.	Totals.	
Ward I M	171	182	178	180	171	181	177	176	193	157	158	1924	
Ward I F	229	215	161	194	175	185	169	168	163	160	152	1971	
Totals.	400	397	339	374	346	366	346	344	356	317	310		3895
Ward II M	103	101	89	87	98	96	80	80	85	69	66	954	
Ward II F	88	108	86	98	78	94	84	88	102	73	58	957	
Totals.	191	209	175	185	176	190	164	168	187	142	124		1911
Ward III M	37	22	23	23	26	38	30	26	25	17	15	282	
Ward III F	21	25	19	27	31	29	11	20	19	26	22	250	
Totals.	58	47	42	50	57	67	41	46	44	43	37		532
Ward IV M	53	43	45	52	45	41	49	48	57	41	49	523	
Ward IV F	41	60	58	57	45	51	57	46	58	48	42	563	
Totals.	94	103	103	109	90	92	106	94	115	89	91		1086
Ward V M	65	72	64	35	62	59	34	46	58	49	39	583	
Ward V F	72	56	57	77	58	52	64	64	49	58	66	673	
Totals.	137	128	121	112	120	111	98	110	107	107	105		1256
Ward VI M	80	71	83	82	59	59	74	69	68	56	35	736	
Ward VI F	82	85	65	82	76	80	83	74	68	66	53	814	
Totals.	162	156	148	164	135	139	157	143	136	122	88		1550
Ward VII M	142	160	153	141	166	138	145	139	144	111	124	1563	
Ward VII F	155	175	153	163	145	152	139	118	140	116	118	1574	
Totals.	297	335	306	304	311	290	284	257	284	227	242		3137
Ward VIII M	163	174	172	156	175	137	172	154	141	140	136	1720	
Ward VIII F	194	188	158	156	164	146	139	151	163	154	155	1768	
Totals.	357	362	330	312	339	283	311	305	304	294	291		3488
Grand Totals.	1696	1737	1564	1610	1574	1538	1507	1467	1533	1341	1288		16855

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SCHOOL ATTENDANCE.

Ages.	5 yrs.	6 yrs.	7 yrs.	8 yrs.	9 yrs.	10 yrs.	11 yrs.	12 yrs.	13 yrs.	14 yrs.	15 yrs.	Totals.
Public Schools.....	1264	1431	1278	1271	1256	1244	1246	1248	1310	992	759	13299
Parochial Schools.....	216	259	261	314	308	281	249	202	212	150	102	2554
Private Schools.....	4	5	6	13	2	7	3	9	7	11	25	92
At Home.....	212	42	19	12	8	6	9	8	4	61	96	477
At Work.....									M	72	168	240
									F	55	138	193
Totals	1696	1737	1564	1610	1574	1538	1507	1467	1533	1341	1288	16855

Of the above number not attending school, 72 boys and 55 girls fourteen years of age, and 168 boys and 138 girls fifteen years of age, are at work.

Number of male illiterate minors over fourteen years of age,	431
Number of female illiterate minors over fourteen years of age,	312
Total,	743

Summary of school census for 1912 :—

Ages.	5 yrs.	6 yrs.	7 yrs.	8 yrs.	9 yrs.	10 yrs.	11 yrs.	12 yrs.	13 yrs.	14 yrs.	15 yrs.	Totals.
Public Schools..	1181	1173	1233	1218	1185	1190	1176	1215	1233	869	731	12404
Parochial Schools..	201	234	273	280	274	268	203	231	183	153	100	2400
Private Schools..	8	7	7	5	3	7	5	8	10	14	21	95
At Home....	211	50	12	4	9	1	5	3	10	36	71	412
At Work.....									M	127	218	345
									F	122	137	259
Grand Totals	1601	1464	1525	1507	1471	1466	1389	1457	1436	1321	1278	15915

THE ENUMERATION COMPARED BY WARDS.

Wards.	1909	1910	1911	1912	1913
I	2935	3204	3324	3526	3895
II	2072	1886	1862	1888	1911
III	597	597	583	546	532
IV	978	968	1012	1029	1086
V	1190	1194	1194	1230	1256
VI	1508	1497	1528	1540	1550
VII	2275	2520	2631	2872	3137
VIII	2780	2793	3097	3284	3488
	14335	14659	15221	15915	16855

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SCHOOL ENROLLMENT AND ATTENDANCE.

(For the school year ending June 27, 1913.)

SCHOOLS.	Whole Number Enrolled.	Average Number Belonging.	Average Number Attending.	Per cent. of Attendance.
High,	1,988	1,863.6	1,781.5	95.9
Grammar and Primary,	13,768	11,755.8	10,986.1	93.4
Kindergartens,	1,786	943.7	780.1	82.6
All day schools,	17,492	14,563.1	13,547.7	93.0
Evening High,	961	491.8	367.0	74.6
Evening Grammar and Primary,	1,746	822.7	593.0	72.1
Evening Trade Classes,	661	408.1	333.6	81.7
All evening schools,	3,368	1,722.6	1,293.6	75.0

For detailed report of enrollment and attendance, see page 114.

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CENTRAL HIGH SCHOOL.

DISTRIBUTION OF PUPILS BY AGES AND CLASSES.

CLASS.	AGE.	11	12	13	14	15	16	17	18	19	20	21	Totals,	
Post-Graduate.....	Boys.							1		1			2	
	Girls.						2	2	2	1			7	9
Senior A.....	Boys.						2	2	4	1			9	
	Girls.						2	3	4	4			13	22
Senior B.....	Boys.						5	10	5	3			23	
	Girls.					3	9	28	15	5			60	83
Junior A.....	Boys.						4	5	4	5	1	1	20	
	Girls.					4	5	5	16	5	2	1	38	58
Junior B.....	Boys.				2	9	17	15	6	5			54	
	Girls.				1	13	29	14	7				64	118
Sophomore A.....	Boys.				1	5	8	8	2				24	
	Girls.				1	7	10	13		1			32	56
Sophomore B.....	Boys.		1	1	5	20	18	9					54	
	Girls.			1	11	30	18	7	3				70	124
Freshman A.....	Boys.		1	2	5	13	9	2					32	
	Girls.			2	15	16	12	3	3	1			52	84
Freshman B.....	Boys.		2	6	29	29	11	3					80	
	Girls.	1	1	15	36	18	13	2		1			87	167
Totals,		1	5	27	106	167	174	132	71	33	3	2		721

AVERAGE AGES.

CLASS.		Average Age.	Oldest.	Youngest.	Av. Age of Class.
Post-Graduate	Boys.	18-0	19-7	17-2	17-6
	Girls.	17-2	19-11	16-0	
Senior A.....	Boys.	17-4	19-0	16-5	17-5
	Girls.	17-7	19-3	16-3	
Senior B.....	Boys.	17-2	19-6	16-1	17-1
	Girls.	17-1	19-3	15-4	
Junior A.....	Boys.	17-8	21-4	15-10	17-7
	Girls.	17-6	21-2	15-3	
Junior B.....	Boys.	16-5	19-9	14-8	16-3
	Girls.	16-2	18-8	14-8	
Sophomore A.....	Boys.	16-2	18-11	14-11	16-2
	Girls.	16-2	19-0	14-8	
Sophomore B.....	Boys.	15-4	17-8	12-10	15-4
	Girls.	15-4	18-9	13-5	
Freshman A.....	Boys.	15-0	17-9	12-2	15-1
	Girls.	15-2	19-1	13-8	
Freshman B.....	Boys.	14-6	17-2	12-8	14-5
	Girls.	14-4	19-11	11-11	

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CENTRAL HIGH SCHOOL—Continued.

DISTRIBUTION OF PUPILS BY CLASSES AND COURSES.

CLASS.		College Preparatory.	General.	1st Year.	Totals.	
Post-Graduate.....	Boys.	1	1		2	
	Girls.	5	2		7	9
Senior A.....	Boys.	3	6		9	
	Girls.	3	10		13	22
Senior B.....	Boys.	16	7		23	
	Girls.	27	33		60	83
Junior A.....	Boys.	9	11		20	
	Girls.	11	27		38	58
Junior B.....	Boys.	34	20		54	
	Girls.	29	35		64	118
Sophomore A.....	Boys.	16	8		24	
	Girls.	14	18		32	56
Sophomore B..	Boys.	47	7		54	
	Girls.	45	25		70	124
Freshman A.....	Boys.			32	32	
	Girls.			52	52	84
Freshman B.....	Boys.			80	80	
	Girls.			87	87	167
Totals,		260	210	251		721

TECHNICAL HIGH SCHOOL.

DISTRIBUTION OF PUPILS BY AGES AND CLASSES.

CLASS.	AGE.	13	14	15	16	17	18	19	20	21	22	Totals.	
Post-Graduate.	Boys.					1	2	3				6	
	Girls.											0	6
Senior A.....	Boys.					2	3	4	1		1	11	
	Girls.						2	1		1		4	15
Senior B..	Boys.				11	17	19	5	3			55	
	Girls.			1	1	9	9	6				26	81
Junior A.....	Boys.				5	9	11	5	5			35	
	Girls.				7	4	9	1	1			22	57
Junior B.	Boys.			4	23	32	11	3				73	
	Girls.		2	5	17	11	4	4				43	116
Sophomore A.	Boys.		3	8	16	11	8	1				47	
	Girls.			4	15	13	3					35	82
Sophomore B.	Boys.		3	35	25	16	8	3				90	
	Girls.		8	22	14	9	4	1				58	148
Freshman A....	Boys.	3	10	33	17	10	1					74	
	Girls.	1	4	10	11	2	2					30	104
Freshman B...	Boys.	14	41	53	25	6	2					141	
	Girls.	8	23	15	17	1						64	205
Totals.		26	94	190	204	153	98	37	10	1	1		814

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TECHNICAL HIGH SCHOOL—Continued.

AVERAGE AGES.

CLASS.		Average Age.	Oldest.	Youngest.	Average Age of Class.
Post-Graduate.....	Boys.	18-5	19-11	17-1	18-5
	Girls.				
Senior A.....	Boys.	19-1	22-9	17-5	19-4
	Girls.	19-6	21-0	18-5	
Senior B.....	Boys.	17-11	20-8	16-1	18-1
	Girls.	18-2	19-10	15-7	
Junior A.....	Boys.	19-9	20-10	16-0	18-8
	Girls.	17-7	20-2	16-0	
Junior B.....	Boys.	17-5	19-7	15-2	17-8
	Girls.	17-0	19-7	14-6	
Sophomore A.....	Boys.	16-9	19-0	14-0	16-10
	Girls.	16-10	18-4	15-5	
Sophomore B.....	Boys.	16-5	19-9	14-9	16-4
	Girls.	16-2	19-5	14-1	
Freshman A.....	Boys.	15-9	18-7	13-3	16-0
	Girls.	16-1	18-0	13-10	
Freshman B.....	Boys.	15-8	18-1	13-7	15-3
	Girls.	15-2	16-10	13-3	

DISTRIBUTION BY CLASSES AND COURSES.

CLASS.		Scientific.	College Prep. Technical.	Normal.	Totals.	
Post-Graduate...	Boys.	2	4		6	6
	Girls.				0	
Senior A.....	Boys.	6	5	1	11	15
	Girls.	2	1		4	
Senior B.....	Boys.	28	32	8	55	81
	Girls.	11	7		26	
Junior A.....	Boys.	16	19	7	35	57
	Girls.	10	5		22	
Junior B.....	Boys.	44	29	14	73	116
	Girls.	20	9		43	
Sophomore A...	Boys.	30	17	12	47	82
	Girls.	17	6		35	
Sophomore B...	Boys.	57	33	9	90	148
	Girls.	35	14		58	
Freshman A.....	Boys.	44	30	11	74	104
	Girls.	14	5		30	
Freshman B.....	Boys.	81	60	25	141	205
	Girls.	26	13		64	
Totals.	Boys.	303	229	87	532	814
	Girls.	135	60		282	

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HIGH SCHOOL OF COMMERCE

DISTRIBUTION OF PUPILS BY AGES AND CLASSES.

CLASS.	AGE.	12	13	14	15	16	17	18	19	20	21	33	36	Totals.	
Post-Graduate.....	Boys.														
	Girls.						1	2	2		2	2	1	10	10
Senior A.....	Boys.								5					5	
	Girls.						2	9		1	1			13	18
Senior B.....	Boys.				1		2	6	3	2				14	
	Girls.					4	14	15	10	1				44	58
Junior A.....	Boys.						4	1	1					6	
	Girls.					4	7	10	4	3				28	34
Junior B.....	Boys.					2	11	3	2					18	
	Girls.				2	10	26	9	1	1				49	67
Sophomore A.....	Boys.			2	3	6	6	2	1	1				21	
	Girls.				6	10	16	5						37	58
Sophomore B.....	Boys.			1	4	7	12	1						25	
	Girls.			2	8	17	19	5	3					54	79
Freshman A.....	Boys.			4	5	9	6							24	
	Girls.		1	8	36	18	10	2						75	99
Freshman B.....	Boys.		1	5	12	4	3							25	
	Girls.	1	3	22	43	30	4							103	128
Totals.....		1	5	44	120	121	143	70	32	9	3	2	1	138	
														413	551

AVERAGE AGES, 1913.

CLASS.		Average Age.	Oldest.	Youngest.	Average Age of Class.
Post-Graduate...	Boys.				
	Girls.	21-5	36-6	16-11	21-5
Senior A.....	Boys.	18-8	19-2	18-6	
	Girls.	18-3	20-11	16-8	18-4
Senior B.....	Boys.	18-2	20-0	15-5	
	Girls.	17-9	19-7	15-11	17-9
Junior A.....	Boys.	17-6	18-9	16-8	
	Girls.	17-10	19-9	16-0	17-9
Junior B.....	Boys.	17-3	19-5	15-11	
	Girls.	17-0	19-11	14-10	17-1
Sophomore A...	Boys.	16-11	20-2	14-3	
	Girls.	16-6	18-4	14-11	16-8
Sophomore B...	Boys.	16-4	17-10	14-3	
	Girls.	16-5	19-2	14-2	16-6
Freshman A.....	Boys.	15-8	17-1	14-1	
	Girls.	15-5	18-2	13-5	15-6
Freshman B.....	Boys.	15-2	16-11	13-6	
	Girls.	15-0	17-5	12-1	15-1

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Number of pupils admitted to high school grade in 1913, upon recommendations of principals of city grammar schools.

	FEBRUARY	JUNE	TOTAL
Buckingham,	49	54	103
Central Street,	33	35	68
Chestnut Street,	93	178	271
Forest Park,	64	82	146
Indian Orchard,	0	13	13
Sixteen Acres,	0	3	3
State Street,	60	56	116
Total,	299	421	720
Number entering Central High School,	67	130	197
Number entering High School of Commerce,	99	128	227
Number entering Technical High School,	103	158	261
Total,	269	416	685
Number of pupils admitted to Central High School:—			
From city grammar schools (by examination),	4	2	6
From city grammar schools (on probation),	1	3	4
From schools outside the city (new residents and non-residents),	0	14	14
From private and parochial schools,	0	0	0
	5	19	24
Number of pupils admitted to High School of Commerce:—			
From city grammar schools (by examination),	3	6	9
From city grammar schools (on probation),	0	2	2
From schools outside the city (new residents and non-residents),	1	7	8
From private and parochial schools,	1	2	3
	5	17	22

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	FEBRUARY	JUNE	TOTAL
Number of pupils admitted to Technical High School:—			
From city grammar schools (by examination),	1	3	4
From city grammar schools (on probation),	2	3	5
From schools outside the city (new residents and non-residents),	9	25	34
From private and parochial schools,	0	3	3
	12	34	46

Whole number of pupils finishing the grammar school course (including those passing the examinations),		750
Of these, the number entering:—		
Central High School,	207	
High School of Commerce,	238	
Technical High School,	270	
	715	

Number of pupils graduated from Central High School:—	FEBRUARY	JUNE	TOTAL
From the College Preparatory course,	12	26	38
From the General course,	19	60	79
	31	86	117
Number of pupils graduated from High School of Commerce,	20	48	68
Number of pupils graduated from Technical High School:—			
From the College Preparatory course,	6	23	29
From the Scientific course,	8	0	8
From the Technical course,	0	38	38
From the Normal School Preparatory course,	0	3	3
	14	64	78
Total number of pupils graduating from the high schools,	65	198	263

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DISTRIBUTION OF PUPILS BY AGES AND GRADES IN SEPTEMBER, 1913.

AGES.	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	Gram. Prep.	Spec. Prep.	Open Air	Prac. Arts	Vocational	Totals
Under 5 yrs.	11														11
5 years	680	4								1					685
6 "	973	349	5							2		1			1330
7 "	392	730	223	6						3		1			1355
8 "	109	388	555	226	22					9	6	4			1319
9 "	29	142	400	457	221	16	1			5	3	4			1278
10 "	11	50	168	357	428	174	19			16	4	5			1232
11 "	5	18	65	183	330	367	184	24	1	26	3	2			1208
12 "	2	6	33	100	160	386	355	150	24	31		7			1254
13 "	2	4	16	61	113	244	364	299	194	29	3	5	5		1339
14 "	1	4	14	27	50	129	164	251	320	25	4	3	11	13	1016
15 "	1		1	3	19	22	67	138	223	16	3	4	2	28	527
16 "	1	2	1	3	4	6	8	27	94	18			1	17	182
17 "	1					1		7	25	2	1			7	44
18 "								1	5	1				1	8
Over 18 yrs.								1	4						5
Totals	2218	1697	1481	1423	1847	1345	1162	898	890	184	27	36	19	66	12,793

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DISTRIBUTION OF PUPILS BY GRADES IN SEPTEMBER, 1913.

Grades	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	Gram. Prep.	Spec. Prep.	Pract. Arts	Totals.
Acushnet Avenue	101	106	74	82	63					21			447
Alden Street	37	48	45	23									153
Armory Street	155	103	105	89	102	94	88	35		25			796
Barrows					118	128	120						366
Boston Road	31	15	18	15	16	15	11						121
Brightwood	85	87	43	39									254
Buckingham						86	110	136	160				492
Carew Street	125	90	105	82	87	41					14		544
Central Street	46	48	42	57	62	84	88	107	75	17	13		639
Charles Street	67	35	20										122
Chestnut Street				49	135	243	258	269	293			19	1266
Dry Bridge	11	4	6	3									24
Eastern Avenue	88	58	41	41	39								267
East Union Street	97	53	65	42						21			278
Five Mile Pond	5	6	3	3	10								27
Forest Park						175	171	141	172				659
Glenwood	22	9	11	12									54
Homer Street	99	111	88	46	78								422
Hooker	127	96	64	79	67					19			452
Howard Street	57	37	35	84	92	151	83			22			561
I. O. Primary	40	33	37	40									150
I. O. Grammar	78	47	46	44	78	45	40	30	30				433
Jefferson Avenue	133	93	110	63									399
Kensington Avenue	134	94	76	105	76					15			500
Lincoln	81	77	61	86	83	98	82						568
School Street	22	21	19	22	19	34							137
Sixteen Acres	6	5	7		4	4	1	5					32
State Street							25	175	160				360
Strickland	94	77	48	43									262
Sumner Avenue	50	40	33	39	41								203
Tapley	111	70	73	75	83	73	36						521
White Street	80	83	58	58	57	21							357
William Street	146	84	93	39						24			386
Worthington Street	95	67	50	63	37	53	49			20			434
Open-Air													36
Vocational													66
Totals	2218	1697	1481	1423	1347	1345	1162	898	890	184	27	19	12,793

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AVERAGE AGE IN EACH GRADE IN SEPTEMBER, 1913.

SCHOOLS.	I.	II.	III.	IV.	V.	VI.	VII.	VIII	IX.
Acushnet Avenue	6-0	7-4	8-8	10-11	11-4				
Alden Street	6-2	7-1	8-4	9-6					
Armory Street	5-9	6-7	7-4	8-5	9-9	11-2	11-9	13-4	
Barrows					10-9	12-1	12-11		
Boston Road	6-3	7-9	8-7	10-5	12-6	12-4	13-1		
Brightwood	6-6	8-0	9-5	9-6					
Buckingham						11-7	12-7	12-11	14-0
Carew Street	6-4	7-6	8-10	9-1	11-3	11-11			
Central Street	6-3	7-5	8-2	9-7	10-8	11-10	12-6	13-7	14-3
Charles Street	6-7	7-8	9-3						
Chestnut Street				10-1	10-8	12-0	12-9	13-5	14-3
Dry Bridge	5-0	7-0	8-0	9-0					
Eastern Avenue	6-1	7-4	8-6	9-8	11-4				
East Union Street	6-4	7-4	9-3	10-5					
Five Mile Pond	5-6	7-4	9-6	12-0	11-0				
Forest Park						11-5	12-2	13-3	14-2
Glenwood	6-1	7-1	8-4	9-0					
Homer Street	5-9	7-2	8-4	9-4	10-3				
Hooker	6-4	7-6	8-10	10-7	12-2				
Howard Street	6-8	8-1	9-1	11-1	12-0	12-3	13-0		
Indian Orchard Primary	6-3	7-2	10-5	11-6					
Indian Orchard Grammar	6-4	7-5	8-8	10-4	11-4	12-3	12-9	13-10	14-7
Jefferson Avenue	5-8	7-3	8-2	9-4					
Kensington Avenue	6-0	7-3	8-1	9-3	10-7				
Lincoln	6-0	7-9	8-5	10-11	11-0	11-7	13-0		
School Street	5-8	7-2	7-10	8-11	10-7	11-1			
Sixteen Acres	6-8	8-4	8-5		10-6	10-8	11-5	12-10	
State Street							13-11	13-8	14-5
Strickland	6-1	7-7	8-4	9-3					
Sumner Avenue	6-1	6-9	8-1	8-10	9-9				
Tapley	5-6	6-10	8-3	9-4	10-3	11-5	12-3		
White Street	6-1	7-4	8-11	9-8	10-6	11-2			
William Street	6-4	8-3	9-8	10-11	9-9				
Worthington Street	6-2	8-6	9-5	10-7	11-8	12-6	12-7		
Average	6-1	7-5	8-7	9-10	10-10	11-8	12-7	13-4	14-3

TEACHERS IN THE PUBLIC SCHOOLS, JANUARY, 1914.

DAY SCHOOLS.	MEN.	WOMEN.	TOTAL.
High Schools,	38	67	105
Grammar Grades,	9	212	221
Primary Grades,		133	133
Vocational,	5		5
Special Schools,	1	11	12
Ungraded Schools,		4	4
Kindergartens,		39	39
Special Teachers,	10	25	35
General Substitutes,		2	2
Total in Day Schools,	63	493	556
EVENING SCHOOLS.			
High,	14	14	28
Elementary,	9	56	65
Trades,	18	7	25
Total in Evening Schools,	31	77	118

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STATISTICAL TABLE

For the School Year Ending June 27, 1913.

(The registered number is the whole number of pupils in the school during any portion of the year, including transfers on account of changes in residence, etc.)

SCHOOLS.	Rooms.	TEACHERS.	GRADES.	Number Registered.	Average Membership.	Average Attendance.	Per cent of Attendance.
Central High,		William C. Hill, Prin., Fannie E. Bickley, Mrs. Ida A. Burleigh, Marion L. Childs, Helen C. Clarke, Maud V. Cole, Bertha T. Davis, Sally F. Dawes, Marion E. Dunbar, Clarence M. Hall, Helen L. Hall, Amy R. Hill, Isabel M. Kagwin, Ethel L. Keith, Howard C. Kelly, Frances H. Kingsley, Allen H. Knapp, Jessie M. Law, William F. Linehan, Georgia E. Lyon, Elizabeth Magay, Walter V. McDuffee, Florence Messer, Marion C. Murphy, Amber L. Parlin, Mary L. Regal, Emilie deRochemont, Waterman S. C. Russell, Elizabeth A. Souther, Annie L. Swasey, Frances E. Thompson, Julius Tuckerman, Angeline L. Weeks, Dorothy Wellington, Josephine A. White, Frederic R. Willard, Alice M. Wing, Ellen A. Winslow, Mary H. Woodbury,		712	697.2	662.7	95.0
High School of Commerce,		Carlos B. Ellis, Prin., Karl F. Adams, Grace Bigelow, Caroline Brown, Mrs. Louise M. Bullman, Bertha W. Burnham, Charles A. Campbell, Anna S. Danforth, Elinor Hull, Evered E. Kent, Will W. Macalpine, Warren E. Potter, Margaret Robinson, Rose E. Sherman, Etta Sinsabaugh, Julia W. Strong,		478	458.2	447.9	95.6

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SCHOOLS.	Rooms.	TEACHERS.	GRADES.	Number Registered.	Average Membership.	Average Attendance.	Per cent of Attendance.
High School of Commerce, (*Continued*)		John Viele, Edward H. Webster, Mildred F. Wheeler,					
Technical High,		Charles F. Warner, Prin., Burton A. Adams, J. Hawley Aiken, S. Augustine de Angelis, Robert L. Ashley, Wilbur C. Batchelor, Ruth C. Bigelow, Lillian M. Bolster, Jessie M. Bourn, S. Everett Cook, Anne J. Dudley, Edwin A. Finch, Mrs. Julia H. Foster, Elizabeth E. Gammons, Edward H. Goodrich, M. Alma Grant, Ernest A. T. Hapgood, Fred J. Hart, Herbert F. Hartwell, Clara B. Hawks, Earle J. Hesselton, Nellie B. Hill, Edward E. Holton, William N. Howard, Mrs. Harry W. Howes, Mary A. Lewis, Alfred R. Lincoln, Lucy R. Mallary, Harry B. Marsh, August E. Metzdorf, George M. Mitchell, Marie G. Mussaeus, Clarence E. Paddock, Lewis O. Richardson, Madge E. Richmond, Mary L. Sawyer, Charlotte Smith, Grace T. Smith, Mrs. Lydia Smith, Emma R. Southworth, Mary A. Steer, Frank L. Sweatland, Amy L. Wallon, Fred M. Watts, Mary A. Weaver,		748	708.2	670.9	94.8
Vocational,		Egbert E. MacNary, Prin., Clarence J. Sanborn, Jay Fisk, Edwin C. Knapp, Daniel H. Shay, Charles B. Rose,		70	56.3	52.9	94.0
Open-Air,		Mary E. Loud, Prin., Mrs. May T. Martinelli, Asst.	I-VIII	22	30.6	27.2	88.8

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SCHOOLS.	Rooms.	TEACHERS.	GRADES.	Number Registered.	Average Membership.	Average Attendance.	Per cent of Attendance.
Acushnet Avenue,	12	Elizabeth A. Beggs, Prin.,	V	38	36.5	34.2	93.7
		Substitute, Asst.,					
	8	Helen Sharpe,	IV, V	42	37.9	35.9	94.9
	9	Mrs. Anna B. Dougan,	IV	45	40.3	38.1	93.4
	7	Elizabeth O. Stevens,	III, IV	49	42.3	38.5	91.0
	6	Alice A. Johnson,	III	51	42.1	38.9	92.3
	4	Anna E. Alderman,	II, III	42	40.6	38.1	93.8
	5	Mabel L. Bradford,	II	47	41.3	38.1	92.2
	3	Clarinda C. Kibbe,	I	71	38.3	34.5	90.0
	2	Helen F. Moulton,	I	47	40.4	37.3	92.3
	1	Edith B. Robson,	I	45	40.3	37.6	92.1
Alden Street,	4	Nellie A. Ryan, Prin.,	III, IV	35	32.3	31.5	96.0
	3	Elizabeth Frothingham,	II, III	41	37.6	35.2	93.6
	2	Rachel J. Phelps,	I, II	48	36.3	34.0	93.6
	1	Carrie E. Coe,	I	46	33.4	30.8	92.2
Armory Street,		Henry E. DuBois, Prin.,					
	20	Mary V. Leary,	VIII	32	32.3	30.6	94.7
	19	Sarah A. Parsells,	VII	39	37.3	34.7	93.0
	18	Hazel Messenger,	VI, VII	41	37.4	35.4	94.6
	16	Florence M. Abbe,	VI	49	41.3	39.5	94.5
	17	Mattie J. Gillette,	V, VI	46	41.3	38.6	93.4
	13	Olive M. Searle,	V	42	40.3	38.3	93.8
	12	Jessie M. Lowe,	V	42	41.5	39.6	95.4
	15	Mildred MacCallum,	IV, V	22	20.9	19.8	94.7
	11	Emily L. Parsons,	IV	44	40.3	39.1	95.8
	10	Ida M. Pettes,	IV	46	39.5	37.5	94.9
	9	Aggie L. Sulis,	III	41	39.7	37.3	93.9
	8	Mildred A. Billings,	III	45	38.3	35.6	93.0
	7	Lillian M. Hapgood,	II	43	38.9	36.1	92.8
	6	Rose I. Dostal,	II	41	34.6	31.6	91.3
	5	Mary A. Walker,	I, II	38	32.2	29.7	92.2
	3	Stella A. Smith,	I	34	32.5	29.3	90.2
	2	Catherine E. Maybury,	I	49	33.1	29.2	88.2
	1	Bertha V. Bailey,	I	74	35.0	29.3	83.7
Barrows,		Elmer W. Barstow, Prin.,					
	10	Fannie A. Fiske,	VII	34	35.4	34.4	97.1
	8	Julia P. Parnell,	VII	31	29.7	28.2	94.9
	7	Lulu E. Marks,	VII	34	31.9	30.3	94.9
	6	Mary H. McCarthy,	VI	42	42.2	40.3	95.5
	5	Mary F. Pomeroy,	VI	42	43.2	40.7	94.2
	1	Kathleen Crowley,	VI	46	41.3	39.4	95.4
	4	Ruth E. McIntire,	V	33	32.0	30.2	94.4
	3	Ella F. Crooker,	V	40	40.5	39.0	96.3
	2	Annie Gerald,	V	33	36.3	34.9	96.1
Boston Road,	4	E. Blanche Wakefield, Prin.,	VI, VII	21	21.3	20.5	94.0
	1	Marion L. Whitelaw,	IV, V	20	19.0	17.9	94.2
	2	Ethel M. Norton,	III, IV	32	23.4	22.0	94.0
	3	Harriet E. Colburn,	I, II	53	35.1	31.0	88.3
Brightwood,	1	Allie G. Axtelle, Prin.,	IV	44	34.7	32.9	94.8
		Ina D. Babb, Asst.,					
	9	Sara R. O'Brien,	III	44	36.2	34.3	94.4
	8	Margaret G. Kirby,	II, III	38	36.6	34.8	95.0
	7	Hildred Hart,	II	41	34.6	32.8	94.7
	10	Mabel W. Hull,	I	37	33.2	30.8	92.7
	2	Harriet M. Blaisdell,	I	78	39.3	35.9	90.2

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SCHOOLS.	Rooms.	TEACHERS.	GRADES.	Number Registered.	Average Membership.	Average Attendance.	Per cent of Attendance.
Buckingham,		Arthur P. Irving, Prin.,					
	12	Margaret P. Higgins,	IX	42	35.8	34.6	96.6
	11	Grace M. Reed,	IX	42	38.8	37.3	96.1
	10	Mary E. Bloomer,	IX	39	33.8	31.6	93.5
	14	F. Grace Burdick,	VIII, IX	25	24.3	23.2	95.5
	9	Lena M. Brooks,	VIII, IX	41	34.3	32.4	94.4
	8	Edith Green,	VIII	39	37.2	35.5	95.4
	7	Jennie Manning,	VIII	39	31.1	29.6	95.1
	2	Rose C. Smith,	VIII	40	35.2	33.5	95.1
	3	Edith P. Farnsworth,	VII, VIII	38	33.3	36.2	94.5
	13	Bessie M. Graves,	VII	33	30.9	28.7	92.9
	6	Anna B. Fenton,	VII	39	36.7	34.4	93.7
	1	Florence V. Miller,	VII	40	39.2	37.3	95.1
	5	Mary E. Graham,	VI	51	42.2	39.8	94.3
	4	Bessie R. Allen,	VI	46	43.1	40.7	94.4
Carew Street,	13	Mary E. Daboll, Prin.,	V, VI	48	38.0	36.2	95.3
		Hazel B. Smith, Asst.,					
	6	Grace E. Nichols,	V	55	40.3	37.4	92.8
	7	Ella J. Jones,	IV, V	44	42.6	40.0	93.8
	5	Fannie E. Gibbs,	IV	41	37.8	34.6	91.5
	2	Carrie E. Cobb,	III, IV	47	38.5	35.8	93.0
	4	Agnese C. Ludden,	III	47	38.3	35.5	92.7
	11	Addie L. Hines,	II, III	52	43.1	40.1	93.0
	3	Fannie G. Kimball,	II, III	47	42.1	38.7	91.9
	14	Mary M. Quirk,	II	42	36.7	33.2	90.5
	12	Lena M. Tewkesbury,	VI–I	78	36.3	32.2	88.7
	9	Georgietta Hooker,	I	46	37.9	32.9	86.8
	8	Georgia F. Marks,	I	47	41.8	37.2	89.0
	1	Edith A. Plummer,	I	20	40.7	37.2	91.4
Central Street,		Arthur T. Talmadge, Prin.,					
	13	Susie E. Jewell,	IX	41	37.7	36.3	96.2
	12	Margaret Cunningham,	IX	38	35.2	34.0	96.6
	7	Emma E. Campbell,	VIII	43	38.1	35.8	94.2
	6	M. Gertrude Bowen,	VIII	39	40.3	37.8	93.7
	8	Rebecca L. Harding,	VII	36	35.6	33.9	95.3
	5	Monica L. Hall,	VII	38	35.9	34.7	96.6
	14	Mary A. Curtis,	VI	41	43.0	41.4	96.3
	9	Mabelle A. Wilson,	VI	54	38.7	37.2	96.1
	11	Clara A. Farrell,	V	37	30.6	28.8	94.1
	10	Minnie A. Brosnan,	V	46	40.3	38.0	94.3
	4	Mattie H. Wiley,	IV	48	39.5	36.0	91.1
	3	May C. Gilfillan,	III	52	43.9	40.1	91.3
	2	Lida E. Noyes,	II	47	41.3	36.6	88.6
	1	Anna L. Kemp,	I	62	39.5	33.7	85.3
Charles Street,	4	Mrs. M. Alice Williams, Prin.,	III, IV	35	33.0	30.8	93.3
	3	Emma M. Blodgett,	II, III	34	30.3	29.0	94.1
	2	Edith L. Wood,	I, II	38	33.5	30.8	91.9
	1	Mary F. Healy,	I	58	35.9	33.5	93.3
Chestnut Street,		Albert Candlin, Prin.,					
	10	Martha R. Devine,	IX	33	29.9	29.0	97.0
	9	Ida A. Ross,	IX	39	36.6	35.0	95.6
	8	Bird M. Albee,	IX	40	38.9	36.8	94.6
	7	Jennie M. Roberts,	IX	39	33.4	32.0	95.8
	6	Grace A. Puffer,	IX	38	31.6	29.8	94.1
	5	Sara E. Chase,	IX	34	33.9	32.2	95.0
	4	Ruth E. Streeter,	IX	42	36.3	34.4	94.8

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SCHOOLS.	Rooms.	TEACHERS.	GRADES.	Number Registered.	Average Membership.	Average Attendance.	Per cent of Attendance.
Chestnut Street, (*Continued*)	3	Christina A. Lund,	IX	39	39.4	37.1	94.3
	30	S. Blanche Hutchins,	VIII	35	36.3	34.6	95.5
	15	Mary B. Morse,	VIII	37	34.8	32.9	94.5
	14	Mary M. Snushall,	VIII	34	30.3	27.9	92.1
	13	Elsie E. Willard,	VIII	34	35.1	33.5	95.6
	12	Ethel R. Coleman,	VIII	29	34.1	32.3	94.7
	11	Sarah E. Burrall,	VIII	36	34.8	32.8	94.3
	2	Anna E. Powers,	VIII	38	34.3	32.6	95.1
	1	Helen A. Buck,	VIII	35	35.3	33.5	94.9
	32	M. Bertha Holmes,	VII	40	34.8	33.0	94.7
	31	Nellie J. Campbell,	VII	33	36.7	34.7	94.4
	29	Ada B. Judson,	VII	37	31.7	29.3	92.6
	28	Hazel E. Rugen,	VII	38	35.8	33.0	92.0
	27	Alice M. Johnston,	VII	36	36.8	34.8	94.5
	23	Kathryn H. Cunningham,	VII	46	41.2	39.1	95.0
	17	Helen C. Tagan,	VII	35	36.1	34.5	95.3
	16	Louisa J. Dakin,	VII	40	36.3	33.8	93.2
	25	Bessie M. Bailey,	VI	42	38.1	35.2	92.3
	22	Lillian E. Abbott,	VI	42	35.4	33.3	94.1
	21	Florence E. Crozier,	VI	39	39.1	36.8	94.1
	19	Anna L. Boeker,	VI	42	39.8	37.3	93.5
	18	Marion R. White,	VI	43	38.5	36.3	94.3
	26	Sophia Mague,	V	28	36.8	34.0	92.4
	24	Mary G. Walsh,	V	43	41.7	39.3	94.2
	20	Mary E. McPhee,	V	44	41.2	37.0	89.8
	35	Katherine Kelly, (Room opened March 3, 1913)	IV	1	36.5	33.3	91.2
Dry Bridge,		Mary L. Gibbons,	I–V	25	21.2	18.8	88.6
Eastern Avenue,	6	Georgia A. Hodskins, Prin., Gladys N. Black, Asst.,	V	43	38.0	36.3	95.5
	5	Celia M. Wood,	IV	43	39.9	38.3	96.0
	4	Margaret A. O'Brien,	III	39	38.2	36.3	95.0
	3	Ellen Wilkinson,	II, III	42	38.0	36.2	95.3
	2	M. Helen Newton,	I, II	40	35.3	32.7	92.6
	1	Lillian M. Bartlett,	I	71	35.3	32.5	92.1
East Union Street,	8	Laura L. Boice, Prin., Evelyn J. Wright, Asst.,	IV	40	34.1	32.4	95.0
	5	Mary Clement,	III	36	35.4	33.9	95.8
	3	Adella F. Whitworth,	III	33	29.8	28.4	95.3
	2	Ella L. Whitlock,	II	41	36.8	34.4	93.4
	7	Nellie M. Peck,	I	43	38.9	35.8	92.0
	1	Bess W. Owen,	I	65	38.7	34.4	88.8
Five Mile Pond,		Agnes C. Lambert,	I–V	30	22.7	20.6	90.7
Forest Park,		George E. Foss, Prin.,					
	6	Robenia F. Anthony,	IX	33	33.7	32.3	95.8
	5	Louise S. Steinway,	IX	34	35.2	33.3	94.6
	4	Annie M. Whelan,	IX	40	36.3	34.5	95.0
	3	Bernice W. Dearborn,	IX	45	38.1	35.8	94.1
	12	Jeanette H. Baldwin,	VIII	31	29.2	27.3	95.2
	9	Sarah E. Northrop,	VIII	36	33.3	31.1	93.4
	8	Lina M. Greenlaw,	VIII	34	34.0	32.2	94.8
	2	Asenath E. Tarr,	VIII	33	33.5	31.3	93.3
	1	Ethel A. Ronaldson,	VIII	37	34.8	33.4	95.9
	16	Blanche M. Rexford,	VII	36	34.2	32.8	95.6
	15	Katherine E. Brosnan,	VII	45	40.8	38.6	94.5

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SCHOOLS.	Rooms.	TEACHERS.	GRADES.	Number Registered.	Average Membership.	Average Attendance.	Per cent of Attendance.
Forest Park, (*Continued*)	14	Esther L. Adams,	VII	43	38.2	36.1	94.5
	18	Mae L. Thomas,	VII	35	37.4	35.7	95.4
	18	Blanche U. Coleman,	VI	40	35.1	33.1	94.2
	17	Edith R. Cope,	VI	36	33.5	31.8	94.6
	11	H. Beatrice Bartlett,	VI	35	36.0	34.1	94.7
	10	Helena I. Duckworth,	VI	38	34.7	32.5	93.7
Glenwood,	2	Marion Woodman,	III, IV	27	23.3	21.3	91.3
	1	Ruth Clark,	I, II	41	27.0	22.9	85.0
Homer Street,	8	Ellen T. Sullivan, Prin., Irene M. Horrigan, Asst.,	V	40	39.9	38.1	95.5
	7	Nellie L. Warner,	V	40	38.6	36.5	94.5
	5	Mary L. Ryan,	IV	43	43.4	41.5	95.6
	4	Alice M. Ketchum,	III, IV	46	41.2	38.5	93.4
	3	Lucretia J. Barber,	III	47	39.3	36.4	92.5
	6	Annie E. Smith,	II, III	39	39.6	36.8	92.9
	9	Della B. Knappe,	II	44	37.2	33.9	91.1
	2	Isabel E. McIntire,	I	78	44.0	39.0	88.1
	1	Gertrude Armington,	I	51	42.9	38.9	90.7
Hooker,	12	Margaret C. Bickett, Prin., Frances C. MacCracken, Asst.,	V, VI	35	36.4	34.7	95.3
	11	Effie M. Wilcox,	V	33	35.7	33.6	94.1
	10	Florence E. Hosmer,	V	35	32.1	30.6	95.3
	9	Katherine Leonard,	IV	40	35.4	33.4	94.4
	8	Anna F. Gammons,	IV	47	35.1	33.4	95.1
	7	Marguerite C. Buswell,	III	38	34.5	32.6	94.4
	6	Grace Kearnan,	III	42	34.8	32.8	94.2
	5	Harriet E. Brown,	II	46	37.3	34.4	92.2
	4	Lora A. Barnes,	II	49	39.3	36.5	92.8
	3	Maud H. Lee,	I	35	30.3	28.6	94.4
	2	Agnes B. Tyne,	I	39	34.5	31.8	92.2
	1	Ida J. Rich,	I	69	32.2	29.2	90.6
Howard Street,		Frank W. Doane, Prin.,					
	1	Edith M. Phelps,	VII	35	29.1	27.7	95.3
	2	Lena F. Shapleigh,	VII	35	31.1	29.7	95.6
	3	Anna G. Carmody,	VII	45	38.5	36.2	94.0
	6	Nellie S. Batchelder,	VI	44	40.2	38.3	95.2
	5	Pearl A. Southmayd,	VI	38	37.4	35.3	94.4
	4	Elizabeth F. Beauchemin,	VI	39	37.1	35.1	94.7
	9	S. Christine Webster,	V	43	33.5	32.0	95.3
	8	Maude M. Cole,	V	42	32.9	31.5	95.7
	7	Anne E. Harrison,	V	35	34.8	32.9	94.3
	14	Alice E. Ramsdell,	IV	46	36.7	35.0	95.5
	10	Florence M. Leary,	IV	40	34.1	32.2	94.5
	12	Helen E. Lewis,	III	40	40.0	37.7	94.3
	13	E. Celia Olmsted,	II	41	32.8	31.1	94.8
	16	Mary E. Bugbee,	I, II	38	32.3	29.8	92.3
	15	Susan S. Ranney,	I	62	35.9	32.8	91.3
Myrtle Street, Indian Orchard,		Wellington Hodgkins, Prin.,					
	6	Ella L. Hughes,	VIII, IX	54	42.4	40.6	95.7
	7	Mary C. Welch,	VIII	45	36.4	34.5	94.6
	12	Margaret I. Fanning, (Room opened Jan. 27, 1918)	VII	0	41.1	38.7	94.0
	5	Matilda Guinasso,	VI	50	45.2	43.0	95.1
	9	Mary L. Wight,	V	35	29.6	28.5	96.2
	8	Fidelia M. Warriner,	V	34	33.7	31.8	94.5

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SCHOOLS.	Rooms.	TEACHERS.	GRADES.	Number Registered.	Average Membership.	Average Attendance.	Per cent of Attendance.
Myrtle Street, Indian Orchard, (*Continued*)	10	Susan I. Merrill,	IV	45	37.2	35.8	96.2
	4	Mary Ferris,	III	34	30.3	28.9	95.3
	3	Caroline S. Hartahorn,	II, III	36	35.4	34.0	96.1
	2	Theresa M. Gilday,	II	41	35.6	33.6	94.3
	11	Marion H. Craig,	I	43	28.9	26.6	92.0
	1	Alice E. Childs,	I	54	34.7	31.8	91.6
East Main St., Indian Orchard,	6	Mrs. Harriet A. White, Prin.,	IV	57	33.2	31.9	96.0
	3	Mary E. Richardson,	III	53	34.7	32.8	94.5
	2	Agnes M. Fenton,	II	42	33.1	30.9	93.3
	1	Grace E. Lewis,	I	64	42.6	38.9	91.3
Jefferson Avenue,	9	Mary E. O'Neill, Prin., Ruth F. Taylor, Asst.,	IV	48	42.4	39.3	92.5
	5	Maude E. Smith,	III	50	45.7	42.1	92.1
	4	Flora B. Dickinson,	III	54	42.0	39.8	94.8
	6	Agnes M. Cumming,	IV-II	52	41.2	37.5	91.0
	3	Georgia Houston,	II, III	50	42.2	39.2	92.8
	7	Calista Roy,	II	43	37.0	33.2	89.7
	8	Marcia L. Palmer,	I, II	35	28.8	25.5	88.5
	10	Mrs. A. A. King, (Room opened May 26, 1913)	I	29	26.7	23.5	88.0
	2	Annie E. Roberts,	I	42	38.0	33.5	88.1
	1	Louise Clark,	I	82	39.6	33.5	84.6
Kensington Avenue,	7	Amie M. Billings, Prin., Mae E. George, Asst.,	V	40	41.2	39.4	95.6
	15	Olive A. Starkweather,	V	39	32.9	31.5	95.7
	5	Caroline B. Woods,	IV, V	37	27.9	26.4	94.2
	6	Ethel R. Babb,	IV	45	36.8	34.4	93.3
	14	Ruby F. Bothum,	III, IV	40	31.9	30.4	95.2
	18	Olive A. Rainey,	III	42	36.5	33.9	92.6
	17	Emma L. Schrader,	III	46	40.7	38.1	93.6
	16	Mary A. Barnum,	II	40	35.1	32.3	92.0
	13	Emma E. Winslow,	II	37	33.8	30.8	91.1
	9	Eva H. Raymond,	I	31	33.7	31.0	92.0
	8	Bertha L. I. Pulsifer,	I	59	39.1	34.6	88.4
	4	Ethel C. Hilditch,	I	51	38.7	35.6	91.9
Lincoln,		Anna L. Rice, Prin.,					
	8	Fern E. Devendorf,	VII	39	36.8	34.9	94.8
	7	Mary H. Garvey,	VII	41	32.8	31.0	94.6
	4	Nora A. Donohue,	VI	39	39.6	37.2	93.9
	3	Mabel L. Welcker,	VI	45	38.8	36.2	93.2
	14	Ella L. Gibbs,	V, VI	47	41.4	38.8	93.7
	11	Ethelyn J. Russell,	V	49	38.6	36.2	93.5
	12	Louise A. Wood,	IV, V	40	38.6	35.9	93.2
	10	Jane Slocombe,	IV	48	39.9	39.2	98.2
	13	Mary C. Griggs,	III, IV	41	38.4	36.2	94.1
	9	Effie Littlefield,	III, IV	44	40.3	37.8	93.9
	6	Mabel M. Sibley,	II	42	33.3	31.8	95.5
	5	Grace M. Parkinson,	II	51	36.9	34.6	93.8
	2	Susan E. Abbott,	I	49	39.3	34.9	88.4
	1	Queenie Tomlin,	I	67	37.4	33.3	89.3
School Street,	4	Helen R. Davidson, Prin.,	VI	31	28.4	27.2	95.4
	3	Sara M. Thompson,	IV, V	33	29.1	28.0	96.2
	5	Ruth L. Martin,	IV	24	18.0	17.1	95.0
	2	Sylvia Sylvester,	II, III	32	31.3	29.2	93.2
	1	Mary I. Fussell,	I, II	42	28.7	27.0	94.1

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SCHOOLS.	Rooms.	TEACHERS.	GRADES.	Number Registered.	Average Membership.	Average Attendance.	Per cent of Attendance.
Sixteen Acres,	1	Mary E. Coburn,	V–IX	12	11.7	11.6	99.4
	2	Ines Ingraham,	I–V	21	17.7	17.1	96.5
State Street,		Harriet C. Emerson, Prin.,					
	7	Harriet P. McPherson,	IX	36	35.3	33.9	95.9
	6	A. Mabel Cobb,	IX	39	39.0	37.5	96.3
	1	Mary E. Richardson,	IX	35	32.5	31.3	96.2
	2	Lillian H. Welch,	IX	40	38.4	36.7	95.5
	15	Elizabeth H. Crisg,	VIII	35	31.7	29.4	92.7
	14	Edith S. Roswell,	VIII	38	28.1	26.1	92.8
	13	Minnie C. Potter,	VIII	29	25.2	23.8	94.4
	12	Alma R. Gold, (Room closed Jan. 24, 1913)	VIII	24	23.8	22.7	95.0
	10	Helen L. Whitney,	VIII	26	22.6	21.3	93.8
	9	Ethel G. Pemberton,	VIII	45	34.0	32.0	94.3
	8	Josephine A. Lane,	VIII	36	30.1	28.7	95.0
	4	Alma R. Gold,	VII	38	30.8	28.6	92.9
Strickland,	6	Elizabeth Wassum, Prin.,	IV	41	36.3	34.7	95.6
		Ruth H. Merriam, Asst.,					
	3	Fannie C. Pease,	III, IV	50	42.4	39.9	94.0
	5	Susan L. White,	II, III	45	43.4	40.9	94.2
	4	Kate L. Colton,	II	42	34.9	32.8	93.9
	2	Anna E. Wilcox,	I	48	38.3	34.4	89.8
	1	Grace Goldberg,	I	72	40.2	34.9	86.8
Sumner Avenue,	8	Josephine C. Foster, Prin.,	V	34	34.0	31.0	91.2
		Bessie L. Holcombe, Asst.,					
	7	Adah M. Judd,	IV	41	38.5	35.6	92.5
	5	Grace F. Crockett,	III	46	40.0	37.3	93.2
	6	Sara M. Waters,	II	36	32.9	29.7	90.3
	4	Lillian G. Howe,	I	39	36.5	32.6	89.3
Tapley,	14	Mrs. Jean M. Ashton, Prin.,	VI, VII	33	32.2	30.1	90.5
		Mrs. Ada M. Buchan, Asst.,					
	8	S. Mabel Prescott,	VI	37	33.6	31.8	94.5
	4	Maud M. Stoddard,	V, VI	35	33.0	30.9	93.6
	13	Edith A. Harvey,	V	38	36.6	34.8	95.1
	12	Marie Mache,	IV, V	37	39.2	36.4	92.9
	7	Winifred M. Scott,	IV	49	36.3	33.6	92.5
	11	Irma A. Ketchum,	III, IV	45	41.1	37.8	91.9
	5	Stella E. Phillips, (Room opened Jan. 27, 1913)	III	1	35.2	33.0	93.8
	3	Jennie C. Prentice,	III	44	38.2	35.7	93.5
	2	Gertrude Mullins,	II	42	39.1	36.0	92.1
	1	Gail Kingsley,	I, II	43	37.9	34.5	91.0
	10	Ida E. Toole,	I	46	36.8	33.1	89.7
	9	Emily F. Ellis,	I	85	38.1	33.2	87.0

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SCHOOLS.	Rooms.	TEACHERS.	GRADES.	Number Registered.	Average Membership.	Average Attendance.	Per cent of Attendance.
White Street,	2	Julia E. Steere, Prin., Helen P. Mahoney, Asst.,	VI–I	37	33.6	30.8	91.7
	7	Eva M. Sadd,	V	45	38.9	36.8	94.2
	8	Susan C. Pease,	IV, V	42	37.5	35.5	94.7
	10	Mabel A. Pease,	IV	47	40.2	38.1	94.8
	5	Wilhelmine Gutberlet,	III, IV	43	35.9	33.7	93.6
	9	Florence E. Randall,	III	40	40.3	37.1	92.1
	6	Alys Johnson,	II	34	31.7	29.2	92.1
	4	Elizabeth F. Bingham,	II	45	37.0	33.9	91.6
	3	Anna L. Gilmartin,	I	35	33.4	33.3	86.7
	1	Elizabeth A. Garfield,	I	38	35.4	32.4	91.5
William Street,	12	Louise F. Elwell, Prin., Margaret Hurley, Asst.,	IV	43	38.4	36.9	96.1
	11	Ellen E. Morrissey,	III	40	38.6	37.2	96.4
	3	Lillie M. Speer,	III	41	40.4	38.7	95.8
	4	Cora E. Chapin,	II, III	43	39.5	37.2	94.2
	6	Theresa A. Forg,	II	44	37.1	35.2	94.9
	7	Minnie J. Fitzgerald,	I, II	41	37.0	34.7	93.8
	10	Fannie A. Lewis,	I	45	38.4	35.9	93.4
	9	Bertha L. Davison,	I	62	37.5	35.1	93.3
	8	Florence B. Humpage,	I	61	36.7	30.8	83.9
Worthington Street,		Thomas H. Kenworthy, Prin.,					
	11	Mildred Ketchum,	VII	27	24.6	23.3	94.8
	10	Lilla E. McLeod,	VI	34	29.7	27.8	93.6
	9	Carolyn M. Lewis,	V, VI	28	24.8	23.2	93.5
	8	Florence G. Stevens,	V	26	30.8	29.1	94.5
	7	Minna Wilkinson,	IV	40	31.8	30.1	94.6
	6	Mary E. Donica,	III, IV	47	36.5	34.3	94.0
	5	Una L. Bangs,	III	33	33.8	32.0	94.7
	4	Gertrude Rand,	II	30	31.3	29.3	93.5
	3	Ruth M. French,	II	43	32.3	30.4	94.1
	2	Sarah C. Edgar,	I	43	37.4	35.4	94.7
	1	Mary E. Elland,	I	67	42.2	38.3	90.8
		SPECIAL ROOMS.					
Acushnet Ave.,	10	Chloe St. John,	Gram. Prep.	24	19.7	18.5	93.9
Armory Street,	14	Mary I. Kernan,	Gram. Prep.	21	19.9	18.7	94.0
Carew Street,	10	Frances E. Cheney,	Special	19	14.1	12.3	87.2
East Union St.,	6	Jennie S. Perry,	Gram. Prep.	26	18.2	17.0	93.4
Hooker,	13	Clara M. Bush,	Gram. Prep.	35	22.2	20.7	93.2
Howard Street,	11	Fannie Hall,	Gram. Prep.	29	17.5	16.3	93.2
Kensington Avenue,	12	Hattie C. Carlson,	Gram. Prep.	3	15.7	14.7	93.6
William Street,	5	Bertha C. Miller,	Gram. Prep.	36	19.0	18.2	96.6
Worthington Street,	12	Esther B. Macdonald,	Gram. Prep.	40	20.2	18.6	92.1

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SCHOOLS.	Rooms.	TEACHERS.	GRADES.	Number Registered.	Average Membership.	Average Attendance.	Per cent of Attendance.
		KINDERGARTENS.					
Acushnet Ave.,		Mrs. Frances M. Page, Irene Ritchie, Hortense Regnier,		132	75.5	61.5	81.4
Armory Street,		Violette I. Loring, Edith M. Bentley,		137	68.8	53.5	77.8
Brightwood,		Gertrude L. Stadtmueller, Sarah G. Simpson, Grace Goldberg,		120	60.7	47.8	78.7
Central Street,		Anna T. Shaw, Elsie Packer,		64	36.6	33.1	90.4
Eastern Ave.,		May L. Price, Elizabeth Bangs,		86	49.7	42.1	84.7
East Union St.,		M. Louise Stock, Josephine L. Falvey,		100	45.7	34.9	76.4
Homer Street,		Lulu A. J. Allen, Lola J. Macartney,		79	44.2	36.0	81.5
Hooker,		Clara M. Lewis, Grace B. Hamman, Madeline M. Keating,		187	84.8	67.7	79.8
Howard Street,		Anna R. Quilty, Rachel A. Jones,		79	47.6	39.9	83.8
Myrtle Street, Indian Orchard,		Mary A. Bassett, Anna E. Nield, Irene Kenyon,		84	53.9	50.0	92.8
East Main St., Indian Orchard,		Mary A. Bassett, Anna E. Nield, Irene Kenyon,		95	57.9	54.2	93.6
Jefferson Ave.,		Ora L. Batchelder, Alice E. Allen, Rachel M. Potvin,		131	61.9	48.3	78.1

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SCHOOLS.	Rooms.	TEACHERS.	GRADES.	Number Registered.	Average Membership.	Average Attendance.	Per cent of Attendance.
Kensington Avenue,		Nella M. Stockwell, Alice F. Howland,		76	46.7	39.1	83.7
Sumner Ave.,		Grace H. Bowers, Mabel C. Park,		57	32.7	26.5	81.0
Tapley,		M. Josephine Barry, Ethel F. Graves,		117	57.2	47.6	83.2
White Street,		Alice E. Loynes, Anne Seymour,		88	46.1	36.8	79.8
William Street,		Helen C. Bailey, Louise Collins, Grace S. Campbell,		154	73.7	61.1	82.9
		EVENING SCHOOLS.					
Evening High,		Carlos B. Ellis, Prin., Karl F. Adams, Mrs. Louise M. Bullman, Bertha W. Burnham, Charles A. Campbell, Emma E. Campbell, Margaret Cunningham, Anna S. Danforth, Clarence M. Hall, Edward J. Hickox, Georgia A. Hodskins, Evered E. Kent, W. Edward Lamb, Will W. Macalpine, Pauline C. Mellus, Paul H. Pitkin, Warren E. Potter, Margaret Robinson, Carl Smith, Annie L. Swasey, Mildred F. Wheeler,		784	415.5	306.3	73.7
Preparatory Class,		Nellie J. Campbell, Jessie M. Lowe, Mrs. May T. Martinelli, Mary C. Welch,		177	76.3	60.7	79.5

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SCHOOLS.	Rooms.	TEACHERS.	GRADES.	Number Registered.	Average Membership.	Average Attendance.	Per cent of Attendance.
Chestnut St.,		Arthur T. Talmadge, Prin., Mrs. Amy U. W. Bagg, M. Josephine Barry, Mrs. E. C. Bliss, Mrs. Kathleen Crowley, Martha R. Devine, Nora A. Donohue, David Fliegelman, Grace Goldberg, L. E. Haskins, Mrs. Anna L. Jackson, L. D. Jones, Katherine J. Keenan, Margaret W. Kennedy, W. J. Kimble, Mrs. W. J. Kimble, Mrs. A. A. King, Annie E. Roberts, Minnie D. Schott, Lesley Stent, Mrs. Harriet E. Todd,		716	323.6	225.4	68.6
Howard Street,		Frank W. Doane, Prin., Mrs. Ina B. Allen, Mrs. E. F. Bogart, M. Gertrude Bowen, Clara M. Bush, Dwight Clark, Mrs. Della R. Davis, Helen S. Doane, Edward H. Fuller, Mary E. Graham, Agatha Healy, Mrs. P. W. Hemenway, Anna M. Kennedy, Clara D. Lawrence, Esther B. Macdonald, Mrs. Sophia Michalopoulos, Jennie S. Perry, J. F. Pineo, Edith B. Robson, Lena J. Russell, M. Wynne Wadsworth, Edgar E. White,		792	376.0	277.4	73.7
Indian Orchard,		Mrs. Harriet A. White, Prin., Louise H. Bliss, Laura B. Bradley, A. Marie Elder, Vivian L. Greenlaw, Grace E. Hawkins, Madeline Keating, Emma B. Smith, Mary R. Sullivan, Maria L. Taylor,		238	118.1	90.2	76.3

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SCHOOLS.	Rooms.	TEACHERS.	GRADES.	Number Registered.	Average Membership.	Average Attendance.	Per cent of Attendance.
Evening Trades,		Charles F. Warner, Prin.,					
		Burton A. Adams,	Mech. Drwg	185	109.1	86.5	79.3
		Robert L. Ashley,					
		Earle J. Hesselton,					
		George W. Mitchell,					
		Harry B. Marsh,	Math'mats	59	26.1	20.3	77.8
		Clarence E. Paddock,					
		Edward E. Holton,	Mach. Shop.	141	98.6	86.8	88.0
		Charles H. Wilcox,	Practice				
		Fred J. Hart,					
		Frank L. Sweatland,					
		Edwin A. Finch,	Wood Work	34	22.9	18.4	80.3
		Ernest G. Bates,	Plumbing	31	27.2	22.7	83.4
		Frank W. Tower,					
		Edward H. Goodrich,	Electricity	84	22.1	20.0	90.5
		Samuel E. Pond,					
		Russell Grant,					
		Marion G. Dana,	Cooking	30	16.3	12.4	76.1
		Olive Stowell,					
		M. Alma Grant,	Dr'sm'k'g	52	31.3	25.0	79.8
		Mrs. J. E. Bush,					
		Anne J. Dudley,	Millinery	18	13.0	10.1	77.6
		C. Edward Newell,	Design and	28	18.4	14.1	76.6
		Fred M. Watts,	Arts				
		Mrs. Lena E. Jordan,	Freehand	49	23.1	17.3	74.8
		Harriet Peck,	Drawing				

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SUMMARY OF STATISTICS

For the School Year Ending June 27, 1913.

SCHOOLS.	No. of Schoolrooms.	No. of Teachers.	No. of Pupils Registered.	Average No. Belonging.	Av. No. Pupils to a Room.	Av. No. Pupils to Teacher.	Av. Daily Attendance.	Per cent of Attendance.	Half Days of Truancy.	Corporal Punishments.
Open-Air	1	2	22	20.6	20.6	15.3	27.2	88.8	10	0
Acushnet Avenue	10	11	477	401.0	40.1	36.5	371.2	92.5	15	11
Alden Street	4	4	170	140.1	35.0	35.0	131.5	93.9	0	3
Armory Street	18	19	768	657.9	36.6	34.6	611.2	92.9	47	93
Barrows	9	10	335	332.5	36.9	33.3	317.4	95.4	32	13
Boston Road	4	4	126	99.3	24.8	24.8	91.4	92.0	4	1
Brightwood	6	7	282	215.1	35.9	30.7	201.5	93.6	38	25
Buckingham	14	15	554	500.9	35.8	33.4	474.7	94.7	26	5
Carew Street	13	14	614	514.1	39.5	36.7	471.0	91.6	55	37
Central Street	14	15	622	539.6	38.5	36.0	504.3	93.4	45	7
Charles Street	4	4	165	133.2	33.3	33.3	124.1	93.1	5	6
Chestnut Street	33	34	1,216	1,191.5	36.1	35.0	1,121.1	94.0	100	42
Dry Bridge	1	1	25	21.2	21.2	21.2	18.8	88.6	3	1
Eastern Avenue	6	7	278	224.7	37.5	32.1	212.3	94.4	3	21
East Union Street	6	7	258	213.7	35.6	30.5	199.3	93.2	3	11
Five Mile Pond	1	1	80	22.7	22.7	22.7	20.6	90.7	2	0
Forest Park	17	18	631	598.0	35.2	33.2	566.4	94.7	44	1
Glenwood	2	2	68	50.3	25.2	25.2	44.2	87.8	3	3
Homer Street	9	10	433	366.1	40.7	36.6	339.6	92.7	8	11
Hooker	12	13	508	417.6	34.8	32.1	391.6	93.8	32	44
Howard Street	15	16	623	526.4	35.1	32.9	497.3	94.4	50	17
I. O. Grammar	12	13	471	410.0	34.2	31.5	388.5	94.7	31	4
I. O. Primary	4	4	216	143.6	35.9	35.9	134.5	93.6	1	14
Jefferson Avenue	10	11	485	353.2	35.3	32.1	320.3	90.7	24	35
Kensington Avenue	12	13	507	428.3	35.7	32.9	398.4	93.0	16	23
Lincoln	14	15	642	532.1	38.0	35.5	498.0	93.6	21	53
School Street	5	5	162	135.5	27.1	27.1	128.5	94.8	1	9
Sixteen Acres	2	2	33	29.4	14.7	14.7	28.7	97.6	0	8
State Street	12	13	416	359.6	30.0	27.7	340.7	94.7	63	0
Strickland	6	7	298	235.5	39.3	33.6	217.6	92.4	13	11
Sumner Avenue	5	6	196	181.9	36.4	30.3	166.2	91.3	2	0
Tapley	13	14	535	459.7	35.4	32.8	424.4	92.3	18	36
White Street	10	11	456	368.9	36.9	33.5	340.8	92.3	3	34
William Street	9	10	420	343.6	38.2	34.4	321.7	93.6	14	16
Worthington Street	11	12	423	355.2	32.3	29.6	333.2	93.8	27	27
Total	324	350	13,465	11,533.0	35.6	33.0	10,778.2	93.4	759	627
Special Rooms	9	9	233	166.5	18.5	18.5	155.0	93.0	33	30
Vocational School		6	70	56.3			52.9	94.0	20	0
Central High School		39	*712	697.2			662.7	95.0	0	0
H. S. of Commerce		19	*478	458.2			447.9	95.6	62	0
Technical High School		45	*748	708.2			670.9	94.8	0	0
Total High and Elementary Schools		468	15,706	13,619.4			12,767.6	93.7	874	657
Kindergartens	17	38	1,786	943.7			780.1	82.6		
Total of Day Schools		506	17,492	14,563.1			13,547.7	93.0	874	657
Total of Evening Schools			3,368	1,722.6			1,293.6	75.0		

* There were 101 pupils enrolled in Central High School, 101 in High School of Commerce, and 109 in Technical High School who had previously been enrolled in the grammar schools; thus making the total number of different pupils during the year attending

Central High School,	813
High School of Commerce,	579
Technical High School	857
Total,	2,249

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ANNUAL REPORT

OF

SCHOOL ATTENDANCE OFFICER

To the School Board:—

I have the honor to present herewith the report of the School Attendance Officers for the current year:

Number of visits to stores and factories,..... 50

Number of children found illegally employed,..... 46

Number of visits to school buildings,..... 1,822

Number of cases reported from schools,..... 12,629

As follows: For absence, 10,846; truancy, 726; tardiness, 385; habitual absentees, 47; non-attendants, 62; school offenders, 30; evening school pupils, 523; newsboys, 10.

Number of children found about the streets,..... 1,410

Upon investigation it was found that 924 were absentees; 131 were truants; 42 were tardy children; 106 were habitual absentees; 201 were non-attendants; 2 were school offenders; 4 were evening school pupils.

Of the children found about the streets, 118 absentees, 13 truants, 2 tardy children, 6 habitual absentees, 37 non-attendants, 1 evening school pupil, 1 newsboy, were taken to their homes; and 59 absentees, 84 truants, 29 tardy children, 11 non-attendants, 1 school offender, were taken to school.

Number of visits made to homes,..... 16,074

Divided as follows: For absentees, 13,035; truants, 963; tardiness, 318; habitual absentees, 262; non-attendants, 394; school offenders, 23; evening school pupils, 948; newsboys, 131.

Number of individual absentees,..... 5,098

Heads of families warned by letter that they would be prosecuted unless their children were sent to school regularly, 24

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Heads of families prosecuted for neglecting to cause children under their control to attend school regularly,	21
Of heads of families prosecuted for neglecting to cause children under their control to attend school regularly, 3 left town and did not appear in answer to the summons.	
Number of school offenders prosecuted,	2
Number of school offenders committed to the Hampden County Training School,	1
Parents prosecuted for allowing boys to sell papers illegally,	1
Prosecutions against moving picture houses for admitting children during school hours,	2
Number of children not attending any school,	250
Of these 64 were reported from various sources; and 186 were discovered by the Attendance Officers. These cases have been disposed of as follows: 197 have entered school; 13 were sick and physicians' certificates were received; 20 have left town; 6 were under age; 3 were over age; and 11 were unsettled.	
Heads of families prosecuted for neglecting to cause children under their control to attend school,	4
Number of habitual absentees,	96
Number of habitual absentees, prosecuted,	13
Number of habitual absentees committed to the Hampden County Training School,	5
Number of individual children whose names appeared on the Attendance Officers' record for the year,	5,970
Number of employment certificates issued during the past year,	1,844

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TABULATED RECORD OF TRUANCY.

Schools.	Pupils Truant.	Truancies.	Days of Truancy.	Prosecuted as Habitual Truants.	Committed to the Training School.	Cases continued from day to day for Sentence.
Central High	1	1	1½			
High School of Commerce	1	1	7			
Technical High	10	25	39			
Vocational	3	11	16½			
Acushnet Avenue	16	21	12½			
Armory Street	16	23	22			
Barrows	20	31	21½	1	1	
Brightwood	17	24	17½			
Buckingham	24	35	22			
Carew Street	34	57	40½	1		1
Central Street	26	40	27½			
Charles Street	8	8	3½			
Chestnut Street	63	89	76½	3	2	1
Dry Bridge	1	1	1			
Eastern Avenue	6	6	4½			
East Union Street	4	5	6½			
Five Mile Pond	1	1	1			
Forest Park	11	23	25			
Glenwood	2	3	2			
Homer Street	5	7	4½			
Hooker	34	45	24			
Howard Street	42	54	31½	1	*	1
Indian Orchard Grammar	22	23	15½			
Jefferson Avenue	11	15	10			
Kensington Avenue	10	14	9			
Lincoln	22	27	17½	1	1	
State Street Grammar	12	15	10		*	
Strickland	3	13	7			
Sumner Avenue	2	2	1			
Tapley	5	9	5½			
White Street	4	6	6	1		1
William Street	22	25	16			
Worthington Street	30	37	18½			
Carew Special	2	4	2			
Private Schools	116	171	172	5	2 *	3 †
Between Schools	3	3	12½			
Totals	609	875	710	13	6	7

Seven were truant from two schools, and two from three schools, leaving 593 children who were truant during the year.

* Three boys, who were on parole from the Hampden County Training School, had their paroles revoked and were returned.

† One boy who was prosecuted was sent to a private institution.

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The preceding table shows that while the number of children who were truant was larger than last year, the number of truancies (the continuous time a child was truant) was somewhat smaller and the number of days of truancy less by more than ten per cent. The total number of children whose names appear on our records was greater by twenty per cent. than last year. This rate of increase is much larger than that of the school population, which the school census shows to have been about six per cent. With the changes in the school attendance and employment laws, which went into effect September 1, 1913, the work will be still heavier the coming year if properly done. The new law, however, in spite of the criticism of it, is, I believe, an excellent one. Much of the criticism comes from persons not acquainted with its provisions. For instance, the criticism that I have heard most frequently is that the streets will be full of boys between fourteen and sixteen, who cannot secure work. As a matter of fact there will be fewer boys on the streets because the new law provides that children under sixteen, who are not regularly employed at least six hours a day must attend school. There have always been boys who found they did not like work any better than school and who would do neither until found by the Attendance Officers whom they knew and took care to avoid. Under the new law an employment certificate must be returned to the office from which it was issued within two days after the employment of the minor named thereon ceases. The parents are promptly notified and the child returned to school unless he secures other employment. The tendency should be to greatly reduce the number of boys under sixteen, who are on the streets, and to make boys hold their "jobs" longer. The number of children between fourteen and sixteen is apparently as large as before the new law went into effect and if there should be an inclination on the part of employers to engage children over sixteen rather than under,

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I believe it will disappear if the children under sixteen, as is likely, do as much work in eight hours as they did when the hours were longer.

We have had a number of unusual cases this year. One was that of a Turkish boy who came alone to this country to live with relatives. His age was given as eleven years and the immigration authorities refused to admit him until bond was furnished that he should attend school for five years. After he had been here a few months some of his relatives produced what purported to be a Turkish record of birth showing that the boy was sixteen years of age and demanded an employment certificate, but the bondsmen wanted to be protected. The matter was referred to the immigration authorities and on the refusal of the boy to attend school he was deported and returned to his parents in spite of the protests of his relatives. In another case the parents did not believe in vaccination and refused to have their boy vaccinated. He was refused admission to the school and by agreement the father was prosecuted. The matter was adjusted by his securing for the boy a private tutor approved by the Superintendent of Schools. Another case was that of a boy apparently about thirteen years of age, who was living with an uncle and working for him. The uncle claimed the boy was over sixteen but refused to furnish proof of his age and would not send him to school. The uncle was prosecuted and a man appeared in court who swore he was the boy's father and that the boy was seventeen years of age, so the case was dismissed. We do not believe the man was the boy's father and feel certain the boy was not the age given. The law ought to provide in such cases that the burden of proof of age should be on the defendant and require the same evidence of age as is required for the issuing of an employment certificate.

We have been able to find employment for a number of boys and for several parents. In two cases we secured the

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admission of deaf mutes to schools for the deaf and were able to have one feeble-minded boy admitted to the institution at Waverley. We were also instrumental in finding homes on farms for two boys.

In the course of our work we have frequently had to refer cases to the Union Relief Association, to the Trustees of the Smith Fund, and to the Children's Aid Society, and wish to express our appreciation of the assistance received.

Respectfully submitted,

JOHN A. PARKER,

School Attendance Officer.

December 26, 1913.

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REPORT OF

SCHOOLHOUSE AGENT FOR 1913

SPRINGFIELD, MASS., DECEMBER 22, 1913.

To His Honor, the Mayor, and the City Council.

GENTLEMEN:—In compliance with the City Ordinances, I herewith submit the annual report of the Schoolhouse Agent for the year ending November 30, 1913.

SCHOOLHOUSE REPAIRS.

Acushnet Avenue School:

Boiler, steam and ventilation repairs,	$172 17	
Carpenter labor and material,	39 21	
Furniture, shades and mats,	32 05	
Mason work and material,	48 38	
Painting and glazing,	85 10	
Plumbing repairs,	26 08	
Ordinary repairs,	43 22	
		$446 21

Alden Street School:

Carpenter labor and material,	$44 91	
Furniture,	26 91	
Painting and glazing,	23 48	
Plumbing repairs,	39 90	
Ordinary repairs,	9 87	
		145 07
Amount carried forward,		$591 28

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Amount brought forward,		$591 28
Armory Street School:		
Bells, telephones and lights,	$161 25	
Basement room and alterations,	280 88	
Boiler, steam and ventilation repairs,	166 11	
Furniture, shades and mats,	60 08	
Painting and glazing,	92 25	
Pipe fence,	54 38	
Plumbing repairs,	65 27	
Roof repairs,	37 26	
Window weather strips,	35 00	
Tools and sundries,	1 90	
		954 38
Barrows School:		
Bells, telephones and lights,	$305 24	
Blackboards,	38 72	
Boiler and steam repairs,	147 92	
Carpenter labor and material,	75 03	
Furniture, shades and mats,	21 96	
Painting and glazing,	105 18	
Ordinary repairs,	10 74	
		704 79
Belmont Avenue School (unoccupied):		
Ordinary repairs,		32 08
Boston Road School:		
Carpenter labor, material and storm porch,	$103 01	
Furniture, shades and mats,	25 27	
Painting and glazing,	81 43	
Pipe fence,	48 23	
Ordinary repairs,	35 06	
		293 00
Amount carried forward,		$2,575 53

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Amount brought forward,		$2,575 53

Brightwood School:

Carpenter labor, material and storm porch,	$114 69	
Furniture, shades and mats,	31 57	
Painting and glazing,	99 79	
Plumbing repairs,	76 21	
Steam and boiler repairs,	24 47	
Ordinary repairs,	32 22	
		378 95

Buckingham School:

Balance on heating contract,	$286 37	
Bell and telephone repairs,	25 30	
Carpenter labor and material,	118 43	
Furniture, shades and mats,	280 44	
Painting and glazing,	68 10	
Plumbing repairs,	25 19	
Ordinary repairs,	43 26	
		847 09

Carew Street School:

Bells and repairs,	$57 25	
Carpenter labor and material,	91 34	
Furnace repairs,	34 77	
Furniture, shades and mats,	281 23	
Mason work and material,	44 45	
Painting and glazing,	261 95	
Plumbing repairs,	72 87	
Roof repairs,	131 65	
Ordinary repairs,	44 52	
		1,020 03
Amount carried forward,		$4,821 60

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Amount brought forward,		$4,821 60
Central Street School:		
Bells, telephones and lights,	$126 51	
Blackboards,	40 36	
Boiler and steam repairs,	129 47	
Carpenter labor, material and floors,	344 06	
Concrete floor and mason work,	186 92	
Furniture, shades and mats,	266 94	
Painting and glazing,	186 52	
Plumbing repairs,	115 04	
Roof repairs,	111 77	
Window weather strips,	56 00	
Ordinary repairs,	14 47	
		1,578 06
374 Central Street, Alterations for School Purposes:		
Blackboards,	$72 86	
Carpenter labor and material,	377 06	
Electric bells and lights,	103 42	
Fire extinguishers,	16 00	
Furniture, shades and mats,	327 78	
Heating and ventilating,	362 36	
Mason work and labor,	143 21	
Painting and glazing,	161 85	
		1,564 54
374 Central Street, Occupied Tenements:		
New roof and sundry repairs,		356 73
Charles Street School:		
Boiler and steam repairs,	$140 58	
Carpenter labor and material,	69 09	
Painting and glazing,	57 82	
Plumbing repairs,	76 04	
Ordinary repairs,	9 13	
		352 66
Amount carried forward,		$8,673 59

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Amount brought forward,		$8,673 59
Chestnut Street School:		
Alterations and finishing third floor rooms,	$4,024 92	
Bells and telephones,	139 68	
Boiler and steam installation, and repairs,	374 26	
Carpenter labor and material,	225 07	
Concrete floor,	135 50	
Furniture, shades and mats,	766 85	
Painting and glazing,	308 18	
Plumbing and repairs,	189 83	
Roof, gutter and conductor repairs,	166 10	
Ordinary repairs,	39 58	
		6,369 97
Dry Bridge School:		
Driven well,	$53 23	
Ordinary repairs,	23 59	
		76 82
Eastern Avenue School:		
Carpenter labor and material,	$149 35	
Furnace repairs,	49 51	
Furniture, shades and mats,	57 01	
Painting and glazing,	87 40	
Pipe fence,	38 53	
Plumbing repairs,	55 61	
Steam heating installation,	206 50	
Ordinary repairs,	26 34	
		670 25
East Union Street School:		
Blackboards,	$38 12	
Boiler and steam repairs,	130 38	
Carpenter labor and material,	137 69	
Furniture, shades and mats,	56 30	
Painting and glazing,	113 47	
Sidewalk,	128 46	
Ordinary repairs,	37 47	
		641 89
Amount carried forward,		$16,432 52

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Amount brought forward,		$16,432 52
Emery Street Storehouse:		
Ordinary repairs,		10 43
Five Mile Pond School:		
Carpenter labor and material,	$42 80	
Furnace repairs,	15 80	
Ordinary repairs,	8 79	
		67 39
Forest Park School:		
Basement room finished,	$320 24	
Bells, telephones, lights and clocks,	177 90	
Blackboards,	58 50	
Boiler and steam repairs,	193 59	
Carpenter labor and material,	82 12	
Fence, west line,	206 65	
Furniture, shades and mats,	686 66	
Manual training room lockers,	418 66	
Mason work and material,	42 21	
Painting and glazing,	356 38	
Plumbing and repairs,	124 80	
Roof repairs,	44 45	
Ordinary repairs,	19 04	
		2,731 20
Glenwood School:		
Ordinary repairs,		51 62
High School (Central):		
Bells, telephones and lights,	$787 68	
Boiler and steam repairs,	58 44	
Cabinets, tables and shelves,	469 72	
Carpenter labor and material,	201 80	
Concrete walks,	122 08	
Furniture, shades and mats,	320 27	
Gymnasium lockers,	124 40	
Painting and glazing,	312 40	
Pipe fence,	58 75	
Plumbing and repairs,	404 61	
Roof repairs,	47 89	
Ordinary repairs,	33 85	
		2,941 89
Amount carried forward,		$22,235 05

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Amount brought forward,		$22,235 05
High School (Technical):		
Bells, telephones and lights,	$197 00	
Boiler, steam and ventilation,	546 95	
Carpenter labor and material,	150 90	
Furniture, shades and mats,	125 78	
Painting and glazing,	653 30	
Plumbing and repairs,	127 65	
Mason work and material,	82 00	
Ordinary repairs,	8 18	
		1,891 76
Homer Street School:		
Alterations for new room,	$86 34	
Boiler, steam and ventilation,	75 22	
Carpenter labor and material,	59 09	
Furniture, shades and mats,	183 96	
Painting and glazing,	196 75	
Plumbing repairs,	32 25	
Ordinary repairs,	28 38	
		661 99
Hooker School:		
Boiler, steam and ventilation,	$139 34	
Carpenter labor and material,	49 52	
Furniture, shades and mats,	29 09	
Painting and glazing,	169 22	
Plumbing repairs,	78 15	
Ordinary repairs,	62 79	
		528 11
Howard Street School:		
Bells, telephones and lights,	$256 73	
Boiler and steam repairs,	511 32	
Carpenter labor and material,	146 51	
Furniture, shades and mats,	79 28	
Painting and glazing,	220 93	
Plumbing and repairs,	200 21	
Sanitaries installed,	447 80	
Ordinary repairs,	75 44	
		1,938 22
Amount carried forward,		$27,255 13

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Amount brought forward,		$27,255 13
Indian Orchard Myrtle Street School:		
Alterations for new room,	$72 66	
Bells, telephones and lights,	236 15	
Boiler, steam and ventilation,	122 45	
Carpenter labor and material,	66 60	
Class room floors,	82 38	
Furniture, shades and mats,	328 60	
Metal ceiling,	81 00	
Painting and glazing,	59 64	
Ordinary repairs,	31 48	
		1,080 96
Indian Orchard East Main Street School:		
Bells and lights,	$35 91	
Furniture, shades and mats,	108 05	
Painting and glazing,	60 60	
Ordinary repairs,	34 62	
		239 18
Jefferson Avenue School:		
Alterations for new rooms,	$1,582 20	
Boiler and steam repairs,	62 45	
Gutters and conductors,	57 23	
Furniture, shades and mats,	500 00	
Painting and glazing,	82 05	
Ordinary repairs,	63 48	
		2,347 41
Kensington Avenue School:		
Carpenter labor and material,	$91 71	
Fences,	257 38	
Painting and glazing,	70 50	
Window awnings,	62 00	
Ordinary repairs,	61 42	
		543 01
Amount carried forward,		$31,465 69

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Amount brought forward, ...		$31,465 69
Lincoln School:		
Carpenter labor and material, ...	$34 15	
Painting and glazing, ...	44 72	
Ordinary repairs, ...	79 57	
		158 44
School Street School:		
Carpenter labor and material, ...	$95 65	
Painting and glazing, ...	72 62	
Ordinary repairs, ...	65 06	
		233 33
Sixteen Acres School:		
Carpenter labor and material, ...	$31 90	
Ordinary repairs, ...	17 64	
		49 54
State Street Grammar School:		
Bells, telephones and lights, ...	$62 55	
Blackboards, ...	282 99	
Carpenter labor and material, ...	55 02	
Concrete floors and mason work, . . .	70 95	
Furniture, shades and mats, ...	79 48	
Painting and glazing, ...	135 77	
Plumbing repairs, ...	101 10	
Ordinary repairs, ...	55 99	
		843 85
Strickland School:		
Boiler and steam repairs, ...	$205 07	
Furniture, shades and mats, ...	64 70	
Painting and glazing, ...	64 53	
Ordinary repairs, ...	44 54	
		378 84
Amount carried forward, ...		$33,129 69

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Amount brought forward,		$33,129 69
Sumner Avenue School:		
Ordinary repairs,		19 00
Tapley School:		
Bells, telephones and lights,	$401 64	
Blackboards,	114 55	
Boiler and steam repairs,	144 85	
Carpenter labor and material,	80 77	
Furniture, shades and mats,	373 45	
Painting and glazing,	153 54	
Plumbing repairs,	253 18	
Roof repairs,	42 06	
Ordinary repairs,	58 86	
		1,622 90
White Street School:		
Boiler and steam repairs,	$42 38	
Carpenter labor and material,	25 59	
Furniture, shades and mats,	169 48	
Painting and glazing,	50 61	
Ordinary repairs,	46 93	
		334 99
William Street School:		
Bells and lights,	$58 90	
Boiler and steam repairs,	131 85	
Carpenter labor and material,	43 37	
Furniture, shades and mats,	40 10	
Painting and glazing,	119 08	
Plumbing repairs,	74 38	
Hot water heater,	160 00	
Ordinary repairs,	40 90	
		668 58
Amount carried forward,		$35,775 16

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Amount brought forward,		$35,775 16
Worthington Street School:		
Bells, telephones and lights,	$134 93	
Boiler and steam repairs,	255 22	
Carpenter labor and material,	99 76	
Mason work and labor,	51 36	
Painting and glazing,	208 10	
Plumbing and gas heater,	63 42	
Roof repairs, gutters and conductors,	71 83	
Window screens,	41 44	
Ordinary repairs,	18 70	
		944 76
Vernon Street Office Building:		
Ordinary repairs,		55 68
Shop Work:		53 31
Tools:		101 26
Miscellaneous items and supplies on hand:		142 15
Total expenditures,		$37,072 32
By appropriation,	$31,290 00	
By transfers,	5,792 00	
	$37,082 00	
Total expenditures,	37,072 32	
Balance unexpended,	$9 68	

SCHOOLS: CITY PROPERTY COMMITTEE.

Expenditures from December 1, 1912, to November 30, 1913.

Salaries, Agent and clerk,	$2,866 47
Salaries, janitors,	43,783 64
Extra janitor service,	5,647 77
Evening school janitor service,	1,404 41
Shoveling snow from walks,	330 25
Amount carried forward,	$54,032 54

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Amount brought forward,		$54,032 51
Acushnet Avenue School:		
Fuel,	$703 22	
Light,	88 02	
Motor power,	144 48	
Extra mopping (Kindergarten),	24 00	
Floor oil,	18 30	
Lawn, etc.,	91 47	
Scales,	17 00	
		1,086 49
Alden Street School:		
Fuel,	$265 64	
Light,	10 63	
Motor power,	13 80	
Lawn,	2 33	
Scales,	13 00	
Sundry furnishings,	6 69	
		312 09
Armory Street School:		
Fuel,	$1,665 91	
Light,	247 53	
Extra mopping (Kindergarten),	28 00	
Floor oil, etc.,	51 06	
Lawn and walks,	135 68	
Scales,	17 00	
Sundry furnishings,	20 87	
		2,166 05
Barrows School:		
Fuel,	$350 05	
Light,	193 17	
Floor oil, etc.,	18 60	
Lawn,	6 25	
Scales,	17 00	
Sundry furnishings,	1 25	
		586 32
Amount carried forward,		$58,183 49

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Amount brought forward,		$58,183 49
Boston Road School:		
Fuel,	$293 36	
Light,	19 17	
Cesspool, disinfectant, etc.,	33 92	
Floor oil,	2 88	
Lawn,	1 83	
Scales,	13 00	
		364 16
Belmont Avenue School (unoccupied):		
Brightwood School:		
Fuel,	$364 38	
Light,	51 32	
Extra mopping (Kindergarten),	23 40	
Floor oil, etc.,	11 97	
Lawn,	11 26	
Scales,	17 00	
		479 33
Buckingham School:		
Fuel,	$1,226 85	
Light,	155 96	
Floor oil, etc.,	25 59	
Lawn,	17 20	
Scales,	17 00	
		1,442 60
Carew Street School:		
Fuel,	$666 15	
Light,	59 21	
Floor oil, etc.,	26 10	
Lawn and walks,	173 72	
Scales,	17 00	
		942 18
Amount carried forward,		$61,114 76

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Amount brought forward,		$61,114 76
Carlisle School (unoccupied):		
Central Street School (including 374 Central Street):		
Fuel,	$916 18	
Light,	127 77	
Extra mopping (Kindergarten),	23 40	
Floor oil, etc.,	28 28	
Lawn,	13 45	
Sundry furnishings,	4 36	
Scales,	17 00	
		1,130 44
Charles Street School:		
Fuel,	$280 20	
Light,	1 96	
Floor oil, etc.,	5 94	
Lawn,	7 18	
Scales,	13 00	
		308 28
Chestnut Street School:		
Fuel,	$1,946 32	
Light,	833 98	
Motor power,	401 28	
Extra mopping,	53 00	
Floor oil, etc.,	56 72	
Lawn, etc.,	47 59	
Scales,	17 00	
Sundry furnishings,	9 22	
		3,365 11
Dry Bridge School:		
Fuel,	$30 85	
Sundry furnishings,	4 00	
		34 85
Amount carried forward,		$66,250 44

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Amount brought forward,		$66,250 44
Eastern Avenue School:		
Fuel,	$490 23	
Light,	17 48	
Motor power,	12 72	
Extra mopping (Kindergarten),	24 00	
Floor oil, etc.,	14 58	
Lawn, etc.,	58 97	
Scales,	17 00	
		634 98
East Union Street School:		
Fuel,	$468 57	
Light,	64 82	
Motor power,	119 58	
Extra mopping (Kindergarten),	20 00	
Floor oil, etc.,	21 30	
Lawn,	7 75	
Scales,	13 00	
		715 02
Emery Street School Workshop:		
Fuel,	$243 63	
Light,	3 19	
Labor, etc., moving,	235 99	
		482 81
Five Mile Pond School:		
Fuel,	$54 03	
Scales,	13 00	
Sundry furnishings,	4 00	
		71 03
Forest Park School:		
Fuel,	$975 96	
Light,	245 71	
Motor power,	43 17	
Floor oil, etc.,	70 24	
Lawn,	40 50	
Scales,	17 00	
		1,392 58
Amount carried forward,		$69,546 86

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Amount brought forward,		$69,546 86
Glenwood School:		
Fuel,	$182 66	
Light,	7 77	
Lawn,	4 55	
Scales,	13 00	
		207 98
High School (Central):		
Fuel,	$1,909 98	
Light,	1,866 67	
Motor power,	540 57	
Floor oil, etc.,	58 49	
Lawn,	59 38	
Sundry furnishings,	27 56	
		4,462 65
High School (Technical):		
Fuel,	$2,699 38	
Light,	989 00	
Motor power,	39 00	
Custodian,	300 00	
Extra mopping,	120 50	
Floor oil, etc.,	50 02	
Lawn,	13 25	
Sundry furnishings,	8 72	
		4,219 87
Homer Street School:		
Fuel,	$578 21	
Light,	11 35	
Extra mopping,	24 50	
Floor oil, etc.,	22 80	
Lawn,	11 75	
Scales,	17 00	
		665 61
Amount carried forward,		$79,102 97

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Amount brought forward,		$79,102 97
Hooker School:		
Fuel,	$1,013 41	
Light,	116 43	
Extra mopping (Kindergarten),	23 40	
Floor oil, etc.,	19 20	
Gas heater,	160 00	
Lawn and drain,	21 91	
Scales,	17 00	
		1,371 35
Howard Street School:		
Fuel,	$987 70	
Light,	702 04	
Motor power,	259 68	
Extra mopping (Kindergarten),	20 00	
Floor oil, etc.,	32 11	
Lawn, etc.,	54 63	
Scales,	17 00	
		2,073 16
Indian Orchard Myrtle Street School:		
Fuel,	$1,149 13	
Light,	144 63	
Motor power,	197 85	
Extra mopping (Kindergarten),	18 00	
Floor oil, etc.,	27 80	
Lawn,	10 20	
Scales,	17 00	
		1,564 61
Indian Orchard East Main Street School:		
Fuel,	$467 66	
Light,	119 14	
Extra mopping (Kindergarten),	30 75	
Floor oil, etc.,	8 45	
Lawn,	5 50	
Scales,	13 00	
		644 50
Amount carried forward,		$84,756 59

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Amount brought forward, ...		$84,756 59
Jefferson Avenue School:		
Fuel, ...	$489 64	
Light, ...	49 01	
Extra mopping (Kindergarten), . . .	20 00	
Floor oil, etc., ...	19 60	
Lawn, ...	5 30	
Scales, ...	17 00	
Sundry furnishings, ...	9 42	
		609 97
Kensington Avenue School:		
Fuel, ...	$629 80	
Light, ...	101 94	
Motor power, ...	173 25	
Extra mopping (Kindergarten), . . .	24 00	
Floor oil, ...	29 13	
Lawn, etc., ...	198 66	
Scales, ...	17 00	
		1,173 78
Lincoln School:		
Fuel, ...	$523 90	
Light, ...	176 17	
Motor power, ...	135 33	
Floor oil, etc., ...	5 40	
Lawn, ...	9 85	
Scales, ...	17 00	
		867 65
School Street School:		
Fuel, ...	$316 21	
Light, ...	13 50	
Floor oil, etc., ...	5 01	
Lawn, etc., ...	52 45	
Scales, ...	13 00	
		400 17
Amount carried forward, ...		$87,808 16

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Amount brought forward,		$87,808 16
Sixteen Acres School:		
Fuel,	$106 29	
Floor oil,	3 85	
Scales,	13 00	
Sundry labor,	4 00	
		127 14
State Street School:		
Fuel,	$954 98	
Light,	383 61	
Floor oil, etc.,	17 75	
Lawn,	18 35	
Scales,	17 00	
Sundry furnishings,	9 36	
		1,401 05
Strickland School:		
Fuel,	$374 90	
Light,	31 54	
Floor oil, etc.,	10 55	
Lawn,	2 18	
Scales,	13 00	
		432 17
Sumner Avenue School:		
Fuel,	$477 25	
Light,	65 73	
Motor power,	130 20	
Extra mopping (Kindergarten),	24 00	
Lawn,	12 23	
Scales,	17 00	
		726 41
Amount carried forward,		$90,494 93

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Amount brought forward,		$90,494 93
Tapley School:		
Fuel,	$718 26	
Light,	131 17	
Extra mopping (Kindergarten),	24 00	
Floor oil, etc.,	29 40	
Lawn,	20 85	
Scales,	17 00	
		940 68
Vernon Street Office Building:		
Fuel,	$137 40	
Light,	79 18	
Cans,	17 38	
Sundry furnishings,	35 68	
		269 64
Wachogue School (unoccupied):		
White Street School:		
Fuel,	$728 01	
Light,	55 29	
Motor power,	204 48	
Extra mopping (Kindergarten),	19 50	
Floor oil, etc.,	28 26	
Lawn,	12 80	
Scales,	17 00	
		1,065 34
William Street School:		
Fuel,	$700 50	
Light,	112 32	
Motor power,	130 38	
Extra mopping,	29 25	
Floor oil, etc.,	27 05	
Lawn, etc.,	46 06	
Scales,	17 00	
Sundry furnishings,	9 42	
		1,071 98
Amount carried forward,		$93,842 57

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Amount brought forward, ...		$93,842 57
Worthington Street School:		
Fuel, ...	$624 95	
Light, ...	316 19	
Floor oil, etc., ...	32 64	
Lawn, retaining wall, etc., ...	155 57	
Scales, ...	17 00	
		1,146 35
Ash cans on hand, ...	$56 52	
Appraising land, Buckingham School Addition and Hooker School, ...	200 00	
Automobile, ...	655 10	
Boiler insurance, ...	135 00	
Coal analyses, ...	41 00	
Coal, old Municipal Building, ...	269 60	
Extra clerical work, ...	52 64	
Office supplies, Schoolhouse Agent, ...	109 29	
Office supplies, City Property Committee, . .	89 29	
Telephone, ...	31 90	
Typewriting City Property Committee report, .	7 00	
Miscellaneous, ...	35 51	
		1,682 85
		$96,671 77
Transferred to Schoolhouse Repairs, .		1,210 00
Total expenditures, ...		$97,881 77

By appropriation, ...	$98,775 00	
By transfer, ...	515 77	
	$99,290 77	
Total expenditures, . .	97,881 77	
Balance unexpended, . .	$1,409 00	

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FUEL SUPPLIED TO SCHOOLS.

From December 1, 1912, to November 30, 1913.

	Coal (Pounds.)	Charcoal (Bushels.)
Acushnet Avenue School,	228,810	200
Alden Street School,	84,130	126
Armory Street School,	574,030	110
Barrows School,	120,720	50
Boston Road School (½ cord hardwood),	89,600	80
Brightwood School,	116,170	60
Buckingham School,	388,690	180
Carew Street School,	212,800	100
Central Street School,	280,000	125
Charles Street School,	89,600	40
Chestnut Street School,	885,190	230
Dry Bridge School,	8,480	30
Eastern Avenue School,	158,960	20
East Union Street School,	152,780	
Emery Street School Workshop,	74,250	
Five Mile Pond School,	15,680	44
Forest Park School,	337,260	125
Glenwood School,	59,200	106
High School (Central) and State Street Grammar School,	1,487,170	
High School (Technical),	1,388,400	
Homer Street School,	184,450	95
Hooker School,	346,200	140
Howard Street School,	334,030	280
Indian Orchard Grammar School,	399,340	100
Indian Orchard Primary School,	141,820	125
Jefferson Avenue School,	161,340	95
Kensington Avenue School,	300,100	150
Lincoln School,	262,830	100
School Street School,	100,460	60
Sixteen Acres School,	33,600	24
Strickland School,	129,460	50
Sumner Avenue School,	231,820	
Tapley School,	246,400	130
White Street School,	232,090	120
William Street School,	65,000	100

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		Coal (Pounds.)	Charcoal (Bushels.)
Worthington Street School,		207,600	200
Vernon Street Office Building,		44,800	
374 Central Street,		33,600	
		10,206,860	3,345
Expenditure for coal,	$26,525 27		
Expenditure for wood and charcoal,	456 08		
	$26,981 35		

SUPPLIES FURNISHED JANITORS.

Acushnet Avenue School,	$27 88
Alden Street School,	17 56
Armory Street School,	28 09
Barrows School,	26 49
Boston Road School,	7 10
Brightwood School,	28 14
Buckingham School,	26 75
Carew Street School,	22 13
Central Street School,	51 71
Charles Street School,	22 98
Chestnut Street School,	97 27
Dry Bridge School,	4 98
Eastern Avenue School,	24 87
East Union Street School,	18 99
Five Mile Pond School,	2 57
Forest Park School,	43 51
Glenwood School,	1 58
High School (Central),	120 97
High School (Technical),	203 96
Homer Street School,	17 87
Hooker School,	45 03
Howard Street School,	60 27
Indian Orchard Grammar School,	13 17
Indian Orchard Primary School,	12 16
Jefferson Avenue School,	25 60
Kensington Avenue School,	16 22
Lincoln School,	25 95

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School Street School,	$18 28
Sixteen Acres School,	3 67
State Street School,	34 86
Strickland School,	13 85
Sumner Avenue School,	9 83
Tapley School,	58 00
Vernon Street Office Building,	11 21
Vocational School,	4 60
White Street School,	30 14
William Street School,	33 03
Worthington Street School,	47 62
	$1,258 89

SUPPLIES FURNISHED BATH ROOMS.

Armory Street School,	$27 89	
Chestnut Street School,	18 37	
East Union Street School,	10 70	
Hooker School,	29 28	
Howard Street School,	12 21	
William Street School,	17 86	
Worthington Street School,	14 88	
		131 19
Total janitor and bath room supplies,		$1,390 08

EXPENDITURES FOR JANITORS' SUPPLIES.

Janitors' supplies and furnishings,	$1,416 96
Laundering towels, etc.,	350 24
Repairing flags,	13 10
Express and freight charges,	10 94
Total expenditures,	$1,791 24

SUMNER AVENUE SCHOOL.

By balance from 1912,	$3,385 64
By receipts,	392 50
Total,	$3,778 14
Expenditures,	727 34
Balance unexpended,	$3,050 80

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CENTRAL STREET SCHOOL.

By balance from 1912,	$4,412 24
Expenditures,	3,189 41
Balance unexpended,	$1,222 83

LINCOLN SCHOOL.

By balance from 1912,	$1,727 92
Expenditures,	717 13
Balance unexpended,	$1,010 79

EMERY STREET SCHOOL WORKSHOP.

By appropriation,	$25,000 00
Expenditures,	22,425 99
Balance unexpended,	$2,574 01

MILITIA RIFLE RANGE.

Caretaker,		$316 50
Cleaning pits, taking down targets, etc.,		143 22
Insurance,		30 00
Raising banks, etc.,		748 78
Taxes,		151 55
Telephone repairs,		32 01
Water,		7 50
Sundry labor and material,		8 05
Total expenditures,		$1,437 61
By appropriation,	$732 00	
By transfer,	1,000 00	
Total,		$1,732 00
Total expenditures,		1,437 61
Balance unexpended,		$294 39

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MUNICIPAL HEATING AND LIGHTING PLANT.

Salaries, engineers and firemen,		$6,588 97
Coal,		5,324 24
Boiler insurance,		40 00
Boiler room and heating supplies,		426 42
Engine room supplies,		180 37
Laundering towels, etc.,		26 00
Light, power and electrical supplies,		198 52
Oil,		106 00
Telephone,		44 46
Tools, etc.,		70 76
Incidentals,		39 51
Total expenditures,		$13,045 25
Credit for heating Police headquarters,	$2,307 50	
Credit, for heating Fire Department headquarters,	1,800 00	
		4,107 50
Expenditures,		$8,937 75
By appropriation,	$15,149 00	
Expenditures,	8,937 75	
Balance unexpended,		$6,211 25

Respectfully submitted,

H. L. DORMAN,

Schoolhouse Agent.

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APPENDIX

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SCHOOL CALENDAR, 1914

Winter Term begins	January 5, 1914
Winter Term ends	February 20, 1914
Spring Term begins	March 2, 1914
Spring Term ends	April 24, 1914
Summer Term begins	May 4, 1914
Summer Term ends	June 25, 1914
Fall Term begins	September 8, 1914
Fall Term ends	December 23, 1914

SCHOOL HOLIDAYS

Washington's Birthday	February 22
Patriots' Day	April 19
Memorial Day	May 30
Columbus Day	October 12
Thanksgiving	(Thursday and Friday)

SCHOOL SIGNALS

Two blows, five times, at 7.30 A. M.
No morning session of high schools.

Two blows, five times, at 7.45 A. M.
No morning session of primary and grammar schools.

Two blows, five times, at 11.30 A. M.
No afternoon session of primary and grammar schools.

Two blows, five times, at 12.15 P. M.
No afternoon session of high school.

In addition to the bell signals there will be two blasts of the steam whistle.

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SCHOOL BOARD FOR 1914

JOHN A. DENISON, MAYOR,
CHAIRMAN, *ex officio.*

	TERM EXPIRES.
AT LARGE.—NEWTON M. HALL, 19 Elliott Street.	Dec. 31, 1915
WARD 1.—WAYLAND V. JAMES, 69 Waverly Street.	Dec. 31, 1915
WARD 2.—HENRY L. HIRSCH, 172 Main Street.	Dec. 31, 1915
WARD 3.—RALPH B. OBER, 76 Maple Street.	Dec. 31, 1916
WARD 4.—LEONA M. PEIRCE, 247 Union Street.	Dec. 31, 1916
WARD 5.—FLORENCE CLARK, 107 Dartmouth Street.	Dec. 31, 1916
WARD 6.—FREDERICK HARRIS, 270 Maple Street.	Dec. 31, 1914
WARD 7.—FRANCIS M. BENNITT, VICE-CHAIRMAN, 120 Sumner Avenue.	Dec. 31, 1914
WARD 8.—GEORGE H. HOWARD, 204 Wilbraham Road.	Dec. 31, 1914

SECRETARY,
BERTHA M. McCONKEY.

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SUPERINTENDENT OF SCHOOLS,

JAMES H. VAN SICKLE,

Office, Administration Building. Office hours: School days, from 12 M. to 1 P.M.; Saturdays, from 10 A.M. to 1 P.M.

ASSISTANT SUPERINTENDENT OF SCHOOLS, PRIMARY SCHOOLS, AND KINDERGARTENS,

BERTHA M. McCONKEY,

Office, Administration Building. Office hours: School days, from 12 M. to 1 P.M.; Saturdays, from 10.30 A.M. to 1 P.M.

CHIEF CLERK,

FRED L. WARD,

Office, Administration Building. Office hours: 8.30 A.M. to 5 P.M.; Saturdays, 8.30 A.M. to 1 P.M.

CLERKS,

EDWINA A. MILLER,
CHARLES A. H. PARKER,
PAULINE H. PARKER,
A. LEOTA PINNEY,
ANNA F. LEONARD,
MARY E. BRENNAN.

SCHOOLHOUSE AGENT,

HIRAM L. DORMAN,

Office, Administration Building. Office hours: 10.30 to 11.30 A.M. and 4 to 5 P.M.

CLERK,

L. EMELYN TEN EYCK.

ATTENDANCE OFFICER,

JOHN A. PARKER,

ASSISTANT,

H. A. KILLMER,

Office, Administration Building. Office hours: 8.30 to 9 A.M.; 12.30 to 1.30 P.M.

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SPECIAL COMMITTEES FOR 1914

Finance.

THE MAYOR, DR. BENNITT, and MR. HARRIS.

Text-Books and Supplies.

MISS PEIRCE, PROF. HOWARD, and DR. HALL.

Central High School.

DR. BENNITT, MISS PEIRCE, and DR. HALL.

Technical High School.

DR. OBER, MISS CLARK, and PROF. HOWARD.

High School of Commerce.

MR. HARRIS, DR. BENNITT, and MR. JAMES.

Evening Schools.

PROF. HOWARD, MISS CLARK, and DR. OBER.

Industrial Schools and Manual Training.

MR. JAMES, DR. HALL, and DR. HIRSCH.

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Kindergartens.

DR. BENNITT, MISS PEIRCE, and DR. HIRSCH.

Ungraded Schools.

DR. HIRSCH, MISS CLARK, and PROF. HOWARD.

Physical Culture and Hygiene.

DR. OBER, DR. BENNITT, and DR. HIRSCH.

Music.

MR. HARRIS, MISS PEIRCE, and MISS CLARK.

Domestic Science and Art.

MISS PEIRCE, MISS CLARK, and PROF. HOWARD.

New Buildings.

DR. HALL, MR. JAMES, and MR. HARRIS.

Salaries.

MR. JAMES, DR. OBER, and DR. HALL.

Ward One Group of Schools.

Carew street, Brightwood, Lincoln, Jefferson avenue, Armory street, and Chestnut street.

MR. JAMES.

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Ward Two Group of Schools.

Hooker and Charles streets.

DR. HIRSCH.

Ward Three Group of Schools.

Howard street.

DR. OBER.

Ward Four Group of Schools.

State street, Worthington street, and School street.

MISS PEIRCE.

Ward Five Group of Schools.

Barrows, Tapley, Strickland, and East Union street.

MISS CLARK.

Ward Six Group of Schools.

Acushnet avenue and William street.

MR. HARRIS.

Ward Seven Group of Schools.

Central street, Sumner avenue, Forest Park, Kensington avenue, Alden street, White street, and Eastern avenue.

DR. BENNITT.

Ward Eight Group of Schools.

Buckingham, Homer street, Indian Orchard Grammar and Primary.

PROF. HOWARD.

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ADVISORY COMMITTEE FOR VOCATIONAL SCHOOL.

Metal-Working Department.

EDWARD S. POMEROY,
Master Mechanic, Smith & Wesson's.

R. W. ELLINGHAM,
Works Manager, Hendee Manufacturing Co.

CLARENCE W. ALLEN,
Superintendent Springfield Machine Co.

Wood-Working Department.

A. G. CHAPMAN,
Carpenter-Builder.

C. H. CUTLER,
Foreman, Hampden Lumber Co

WILLIAM FOSTER,
Foreman, Shattuck Brothers.

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HIGH SCHOOL OPPORTUNITIES IN SPRINGFIELD

Pupils who have completed the work of the grammar schools find awaiting them in the courses offered in the three schools of advanced grade unusually rich and varied opportunities for entering upon the next stage of their education. These schools are not managed as entirely separate and unrelated institutions. They are so conveniently grouped that interchange of students is easy and economical. On graduating from the grammar school a pupil decides, with the advice and approval of his parents, what course among those offered in the high schools most fully meets his needs. He is then assigned for enrollment to that school in which his entire course, or the greater part of his course, is carried on. To secure certain portions of his work he may need to report for one or more periods each week at a recitation room, laboratory, or gymnasium in one of the other schools, but his assignment for enrollment in a school is decided on the basis of the predominant characteristics of the course which he chooses.

CENTRAL HIGH SCHOOL

First high school in Springfield; organized, 1841.
Central High School, organized, 1849.
Present building occupied, 1898.
Alumni Association organized, 1854.

Officers of the Alumni Association: Executive Committee: President, Frederick Harris; vice-president, Mrs. George Pirnie; secretary, Robert C. Pepper; treasurer, Philip Beebe; Mrs. W. F. Adams, Mrs. Walter V. McDuffee, Mrs. Kingman Brewster, Walter G. Morse, Raymond A. Bidwell.

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TECHNICAL HIGH SCHOOL

Manual training course opened to high school pupils, 1886.

Organized as Mechanics Arts High School, 1898.

Present name adopted, 1904.

Housed in present building and courses in household technology offered for girls, 1906.

Alumni Association organized, 1903.

Officers of Alumni Association: President, Herbert U. Pease; vice-president, Carl H. Handforth; secretary and treasurer, Wallace C. Day; member-at-large, John V. Doyle.

HIGH SCHOOL OF COMMERCE

Organized as a department in Central High School, 1898.

Transferred to Technical High School, 1906.

Organized as High School of Commerce and transferred to Central High School Building, with sessions in the afternoon, 1910.

TERMS OF ADMISSION TO ALL HIGH SCHOOLS.

Pupils are admitted to the high schools twice a year. All pupils of the grammar schools who are recommended by the principals of these schools are admitted without examination. All these not so recommended are granted the privilege of an examination for admission if they desire it.

Non-residents are admitted upon passing the required examination and paying a tuition of $100 per year in advance. A special pamphlet containing the courses of study and all other necessary information in regard to the school is issued separately, and may be obtained by applying to the Superintendent of Schools.

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EVENING SCHOOL OF TRADES

Organized, 1898.

Conducted in Technical High School building beginning, 1906.

TERMS OF ADMISSION.

Tuition in all the classes is free to all persons over fourteen years of age who are residents of Springfield, but a fee of $5 for materials and other incidental expenses is charged each member of the classes in machine shop practice, and in pattern-making; in plumbing this incidental fee is $8, and in the laboratory work in electricity it is $4. Non-residents are charged a tuition fee for the season of twenty-four weeks as follows: For mechanical drawing, for mathematics, and for electricity, $10; for all other classes, $15. Non-residents are also charged the incidental fees. Members are required to be regular in attendance. Persons wishing to join classes must give satisfactory references as to character and show evidence of ability to do the work required. Certificates of proficiency are awarded in each course to those who complete that course satisfactorily. The school opens the second week in October and is in operation 24 weeks, closing Thursday and Friday evenings of Thanksgiving week and during the vacation of the Christmas holiday season. The school hours are from 7.15 P.M. to 9.15 P.M.

Tuition in all the evening art classes and in the practical classes in domestic science, sewing, and home decoration is free to all persons over fourteen years of age who are residents of Springfield, but a fee of $2.50 for materials and other incidental expenses is charged each member of the classes in design and crafts and domestic science; in the classes in sewing and dressmaking this incidental fee is $2. No incidental fee is charged for the classes in free-hand and model drawing. In addition to these incidental fees non-residents are charged a tuition fee of $10 for the season of twenty-four weeks.

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VOCATIONAL SCHOOL

Organized in Technical High School building, 1908.

In July, 1911, State approval was secured with reimbursement of one half the cost of maintenance and the school was transferred to rented quarters at 36 Taylor street.

TERMS OF ADMISSION.

This school is designed for boys over fourteen years of age, enrolled in the upper grammar grades.

Tuition for non-residents at this school is $100 per year, payable in advance.

DECORATION OF SCHOOLROOMS

The works of art that beautify many of the schoolrooms in the city have a refining influence upon the children who see them from day to day. The deep interest taken in securing fine works of art for decorating the schoolrooms is shown by the large sums that have been collected for this purpose in many of the schools. Without doubt money thus spent will yield a large return in the form of a better appreciation of that which enriches the emotional nature.

The table given herewith indicates the fund raised up to the present time by each school that has engaged in this work:—

Central High,	$6,724.07
High School of Commerce,	512.00
Technical High,	497.75
Acushnet Avenue,	278.82
Alden Street,	113.00
Armory Street,	473.56
Barrows,	873.40
Boston Road,	13.80
Brightwood,	99.83
Buckingham,	881.65

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Carew Street,	$263.81
Central Street,	998.21
Charles Street,	15.00
Chestnut Street,	1,230.00
Eastern Avenue,	128.92
East Union Street,	64.85
Forest Park,	675.96
Glenwood,	5.00
Homer Street,	80.00
Hooker,	983.11
Howard Street,	977.20
Indian Orchard Grammar,	180.00
Indian Orchard Primary,	112.00
Jefferson Avenue,	780.00
Kensington Avenue,	486.31
Lincoln,	223.60
School Street,	143.28
State Street,	140.00
Strickland,	209.16
Sumner Avenue,	251.74
Tapley,	571.95
White Street,	591.69
William Street,	473.83
Worthington Street,	700.16
	$20,753.66

SCHOOL SAVINGS BANKS

The two statistical tables following have been furnished by the Secretary of the Union Relief Association. The items that appear in the first table are taken from the annual report of the Association. The savings made by the children of the various schools, as shown in this tabulated statement, are deposited in the savings banks of Springfield.

The items that appear in the second table include the total sales of stamps and the total amount deposited in savings banks for the past fifteen years. This summary shows the extent of this excellent work.

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Statistics for year from April 1, 1912, to April 1, 1913:—

	Amount of Stamps Sold at Schools.	Amount Deposited in Savings Bank.
Acushnet Avenue,	$239.30	$123.09
Alden Street,	65.00	27.25
Armory Street,	347.81	335.46
Barrows,	159.81	45.75
Belmont Avenue,		70.63
Brightwood,	166.65	30.22
Carew Street,	201.71	108.06
Central Street,	182.00	58.05
Charles Street,	240.00	98.09
Eastern Avenue,	203.50	115.12
East Union Street,	183.85	43.91
Forest Park,	12.00	14.12
Hooker,	1,108.97	702.76
Howard Street,	120.86	20.67
Indian Orchard Grammar,	343.00	223.16
Indian Orchard Primary,	332.00	188.74
Jefferson Avenue,		127.70
Kensington Avenue	294.00	117.13
Strickland,	88.27	60.89
Sumner Avenue,	75.00	20.74
White Street,	223.50	77.29
William Street,	172.55	7.75
Worthington Street,		4.75
	$4,759.78	$2,621.33

Year.	Total Sales.	Total Bank Deposits.	Year.	Total Sales.	Total Bank Deposits.
1897	$4,451.43	$3,111.25	1905	$5,012.27	$2,980.66
1898	3,547.47	2,320.62	1906	7,700.86	3,990.86
1899	4,790.41	2,973.65	1907	6,135.30	3,628.97
1900	4,736.63	2,661.01	1908	8,659.73	3,900.87
1901	4,513.84	2,719.25	1909	7,323.49	3,489.59
1902	6,024.34	3,414.73	1910	5,856.61	3,008.23
1903	5,238.94	3,155.38	1911	5,488.42	3,191.04
1904	4,802.99	2,573.41	1912	3,733.16	2,767.32
			1913	4,759.78	2,621.33
				$92,775.67	$52,508.17

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LIST OF TEXT BOOKS

AUTHORIZED FOR USE IN THE PUBLIC SCHOOLS.

PRIMARY AND GRAMMAR SCHOOLS.

Ordinary type without numbers indicates books of which a copy is to be furnished to each pupil; ordinary type with numbers in parentheses indicates books of which the numbers specified will be furnished to a building; books in italics will be furnished in sets not exceeding 25 to each room in which they are used. Schools needing less than these quantities should make requisitions for less. These statements do not apply to high school books.

READING.

AUTHOR.	TITLE.	GRADE.
Blaisdell	*Boy Blue and his Friends*	II
Blaisdell, Etta A.	Child Life Reader, 1st to 3d	I-III
Bryce, Katherine	*Child-Lore Reader*	II
Burgess, T. W.	Old Mother West Wind	III
Carroll & Brooks	*Fifth Reader*	V
Cyr, Ellen M.	Primer	I
Free & Treadwell	*The Primer*	I
Holbrook, Florence	Hiawatha Primer	II
Howe, W. D.	Third Reader	III
Jones, L. H.	Jones' Third Reader (40)	III
McMurry	*William Tell (Dramatic)*	VII
Noyes & Guild	Sunshine Primer	I
Pyle	*Adventures of Robin Hood*	VI
Osgood, Eulalie Grover	Folklore Primer	I
Osgood, Eulalie Grover	Sunbonnet Babies Primer	I
Powers & Balliet	Readers	I-IX
Rice & Ketchum	*Our Story Reader*	I
Shaw, Edward R.	Big People and Little People of Other Lands	III
Stevenson, Augusta	*Children's Classics in Dramatic Form*	IV
Thompson, J. G. & T. E.	For Childhood Days	I
Wiltse, Sara E.	Folklore Stories and Proverbs	II
GEOGRAPHICAL.		
Andrews, Jane	Seven Little Sisters	IV
Carpenter, Frank G.	Geographical Reader, Asia	V
Carpenter, Frank G.	Geographical Reader, North America	VI

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AUTHOR.	TITLE.	GRADE.
Carpenter, Frank G.	Geographical Reader, Europe	VII
Carroll, Stella W.	Around the World, Bk. 1	II
Carroll, Stella W.	Around the World, Bk. 2	IV
Chaplin, F. P. & Humphrey, F. A.	Little Folks of Other Lands	II
Kirby, Mary & Elizabeth	Aunt Martha's Corner Cupboard (50)	IV
Schwatka, Frederick	Children of the Cold (50)	V
HISTORICAL.		
Eggleston, Edward	Stories of Great Americans (50)	IV
Ellson & Macmullan	*Story of Our Country*	IV
Hawthorne, N.	Grandfather's Chair (50)	VII
Pratt, Mara L.	Legends of the Red Children (50)	VI
Smythe, E. Louise	Old Time Stories	II
Tanner, Dorothy	Legends from the Red Man's Forest (50)	V
ELEMENTARY SCIENCE.		
Cooke, Flora J.	Nature Myths (50)	III
Long, William J.	Ways of Wood Folk (50)	V
GENERAL LITERATURE.		
Æsop	Fables (Stickney)	IV
Andersen, Hans	Fairy Tales, I & II (50)	V
Baldwin, James	Fairy Stories and Fables (50)	III
Baldwin, James	Old Greek Stories (50)	IV
Beckwith, M. Helen	In Mythland, Vol. I	II
Bellamy, Charles J.	Wonder Children	IV
Carroll, Lewis	Alice's Adventures in Wonderland (50)	V
Cook, Agnes S.	Story of Ulysses (50)	V
Cooper, J. Fenimore	The Spy (50)	VII
Defoe, Daniel	Robinson Crusoe (Lambert) (50)	VI
Dickens, Charles	Christmas Carol, etc. (50-100)	VIII
Dickens, Charles	Little Nell (50-100)	VII
Dickens, Charles	Tale of Two Cities	IX
Francillon, R. E.	Gods and Heroes	VIII
Hawthorne, N.	Tanglewood Tales (50)	VII
Hawthorne, N.	Wonder Book (50)	VI
Homer	Odyssey (Palmer) (50-100)	IX
Kingsley, Charles	Water Babies (50)	V
Longfellow, H. W.	Hiawatha (50)	VI
Longfellow, H. W.	Selections (50-100)	VIII
Martineau, Harriet	Peasant and Prince	IX
Norton, C. Eliot	Heart of Oak, I (25)	I
Scott, Walter	Ivanhoe	IX

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AUTHOR.	TITLE.	GRADE.
Scott, Walter	Kenilworth (50-100)	IX
Scott, Walter	Lady of the Lake (Rolfe) (50-100)	IX
Scott, Walter	Marmion (Rolfe) (50-100)	IX
Scott, Walter	The Talisman (Holbrook) (50-100)	IX
Shakespeare, W.	Julius Cæsar (Hudson) (50)	IX
Stockton, Frank R.	Fanciful Tales (50)	V
Wyss, J. D. & J. R.	Swiss Family Robinson (Stickney) (50)	VI
	LANGUAGE.	
Chancellor	Graded City Speller, Fifth Year	V
Chancellor	Graded City Speller, Sixth Year	VI
Chancellor	Graded City Speller, Book II	VII-IX
Southworth, G. A.	Elements of Composition and Grammar	VIII, IX
	ARITHMETIC.	
Emery, M. S.	Everyday Business (50)	VIII
Nichols, W. F.	New Graded Lessons in Arith.	II-V
Smith, D. E.	Primary	III, IV
Smith, D. E.	Intermediate	V, VI
Smith, D. E.	Advanced	VII, VIII
Southworth–Stone	Book I	III, IV
Southworth–Stone	Book II	V, VI
Southworth–Stone	Book III	VII, VIII
Spencer, W. G.	Inventional Geometry	IX
	GEOGRAPHY.	
Frye, Alexis E.	Grammar School Geography	VIII
Morton, Eliza H.	Advanced Geography	VI, VII
Morton, Eliza H.	Elementary Geography	V
King, Charles F.	Advanced Geography	IX
Tarr and McMurry	Geography, Second Book, Part I	VI
	HISTORY.	
Fiske, John	War of Independence	IX
Gibson, J. W.	Chart History of the Civil War (50-100)	VIII
Gordy, Wilbur F.	Complete History of the United States	VII, VIII
Gordy, Wilbur F.	American Leaders and Heroes (50)	V
Gordy, Wilbur F.	American Beginnings in Europe	VI
Montgomery, D. H.	Leading Facts of French History (50-100)	IX

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AUTHOR.	TITLE.	GRADE.
Scudder, Horace E.	George Washington (50-100)	VII
Tappan, Eva March	England's Story	IX
	PHYSIOLOGY.	
Blaisdell, Albert F.	Child's Book of Health	IV
Blaisdell, Albert F.	How to Keep Well	VII
Steele, J. D.	Hygiene for Young People	VI
	BOOKKEEPING.	
Meservey, A. B.	Bookkeeping	VIII
	MUSIC.	
Zuchtman, F.	New American Music Reader, Book II	III, IV
Zuchtman, F.	New American Music Reader, Book III	V, VI
Zuchtman, F.	New American Music Reader, Book IV	VII-IX
	PENMANSHIP.	
Hill, Anna E.	System of Medial Slant Penmanship	I-IX
	DICTIONARY.	
Webster, Noah	Primary Dictionary	IV, V
Webster, Noah	Common School Dictionary	VI-IX
	MANUAL TRAINING.	
Murray, M. W.	Problems in Wood Working	
	GERMAN.	
Fich	Dies und Das	VIII

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HIGH SCHOOLS.

CLASSICS.

Text-Books:

AUTHOR.	TITLE.
Allen & Greenough	Cæsar
Allen & Greenough	Latin Grammar
Arrowsmith & Knapp	Viri Romæ
Autenreith	Homeric Dictionary
Barss	Cornelius Nepos
Collar & Daniell	Practical Latin Composition
Collar & Daniell	First Year Latin
Collar & Daniell	New Gradatim
D'Ooge	Latin Composition
D'Ooge	Cicero
Fairdough & Brown	Æneid
Gleason	Xenophon's Cyropædia
Gleason	Greek Prose Composition
Greenough & Daniell	Sallust's Catiline
Greenough & Kittredge	Vergil
Hadley & Allen	Greek Grammar
Harper	Latin Dictionary
Keep	Homer's Iliad (Books I-VI)
Kelsey	Cæsar, Gallic Wars
Kelsey	Cicero
Kelsey	Ovid
Kelsey	Xenophon's Anabasis
Kirtland	Fabulæ Faciles
Liddell & Scott	Abridged Greek Dictionary
Merry	Homer's Odyssey (Books I-XII)
Perrin	Homer's Odyssey (Books I-IV)
Potter	A New Method for Cæsar
Ritchie	Fabulæ Faciles
Rolfe	Xenophon's Anabasis (Book V)
Shuckburgh	Cicero de Senectute (Cato Major)
Smith	Latin Lessons
White	First Greek Book
Woodruff	Greek Prose Composition

Supplementary Books:

Allen & Greenough	Cicero
Barss	Third Year Latin for Sight Reading
Butler	Herodotus (Book VII)
Collar	Gate to Cæsar
Conington	Vergil
Greenough	Vergil's Æneid (Books VII-XII)
Jeram	Angelice Reddenda
Moss	First Greek Reader
Page	Bucolics of Vergil

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AUTHOR.	TITLE.
Page	Fifty Letters of Cicero
Pearson	Greek Prose Composition
Pearson	Latin Prose Composition
Towle and Jenks	Cæsar for Sight Reading

ENGLISH.

Text-Books:

Addison	Sir Roger de Coverley Papers
Brooks	English Composition, Book I, Enlarged
Brooks & Hubbard	Composition Rhetoric
Browning	Shorter Poems
Buehler	Exercises in English
Bunyan	Pilgrim's Progress
Burke	Speech on Conciliation with America
Byron	Shorter Poems
Carlyle	Essay on Burns
Coleridge	Ancient Mariner
Cooper	The Last of the Mohicans
De Quincey	English Mail Coach
Dickinson & Roe	Nineteenth Century English Prose
Eliot	Silas Marner
Emerson	Culture, Books, Power
Genung	Outlines of Rhetoric
Goldsmith	Vicar of Wakefield
Halleck	History of American Literature
Hitchcock	Enlarged Practice Book in English Composition
Hitchcock	Words and Sentences
Kittredge & Arnold	Manual of Composition
Lockwood & Emerson	Composition and Rhetoric
Long	American Poems
Long	English Literature
Lowell	Vision of Sir Launfal
Macaulay	Lays of Ancient Rome
Macaulay	Essays on Milton and Addison
Macmillan Co.	An Outline for the Study of American Civil Government
Milton	Lyrics
Milton	Paradise Lost
Mooney	Foundation Studies in Literature
Palmer	Self-Cultivation in English
Pancoast	Introduction to American Literature
Pancoast	Introduction to English Literature
Pope	Iliad
Pope	Rape of the Lock
Sandwick & Bacon	Word Book
Shackford & Judson	Composition, Rhetoric, and Literature
Scott	Ivanhoe

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AUTHOR.	TITLE.
Scott	Marmion
Scott & Denney	Composition-Rhetoric
Scott & Denney	Elementary English Composition
Simonds	Student's History of English Literature
Tennyson	Idylls of the King
Tennyson	The Princess
Thurber	Select Essays of Macaulay
Webster	Bunker Hill Oration
Webster	English Composition and Literature
Woolley	Handbook for Composition
Wordsworth	Shorter Poems

Supplementary Books:

Aldrich	Story of a Bad Boy
Arnold	Sohrab and Rustum
Bacon	Essays
Bigelow	Handbook of Punctuation
Blackmore	Lorna Doone
Bradley	Orations and Arguments
Browning	Cavalier Tunes
Browning	Lady Geraldine, Selected Poems
Bryant	Selections
Bryant	Iliad
Bryant	Odyssey
Buehler	A Modern English Grammar
Byron	Childe Harold
Carlyle	Heroes and Hero Worship
Chaucer	Prologue to Canterbury Tales
De Quincey	De Quincey's Confessions
Dickens	A Tale of Two Cities
Emerson	American Scholar
Emerson	Fortunes of the Republic
Ewing	Jackanapes
Fernald	English Synonyms, etc.
Franklin	Antigone of Sophocles
Franklin	Autobiography
Gaskell	Cranford
Gayley	Classic Myths
Genung	Practical Rhetoric
Genung	Rhetorical Analysis
George	From Chaucer to Arnold
Goldsmith	She Stoops to Conquer
Goldsmith	Deserted Village
Guerber	Myths of Greece and Rome
Green	Short History of the English People
Hale	Longer English Poems
Hale	Man Without a Country
Hawthorne	Twice Told Tales

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AUTHOR.	TITLE.
Hawthorne	Tales of the White Hills
Hawthorne	House of Seven Gables
Hawthorne and Lemmon	American Literature
Holmes	Selections from Breakfast Table Series
Irving	Life of Oliver Goldsmith
Irving	Alhambra
Irving	Selections from Sketch Book
Irving	Tales of a Traveler
Kipling	The Jungle Book
Lamb	Essays from Elia
Lewis	First Book in English
Lockwood	Lessons in English
Longfellow	Hiawatha
Longfellow	Tales of a Wayside Inn
Macaulay	Earl of Chatham
Macaulay	Essay on Clive
Macaulay	Essay on Warren
Macaulay	Essays on Addison and Johnson
Macaulay	Masterpieces of British Literature
Macaulay	On Life of Samuel Johnson
Matthews	Introduction to American Literature
O'Neill	Punctuation
Palgrave	Golden Treasury
Palmer	Translation of the Odyssey of Homer
Parkman	Champlain and his Associates
Pattee	A History of American Literature
Poe	Poems and Tales
Poe	The Raven
Pope	The Iliad
Pope	Essay on Man
Potter	Alcestes of Euripides
Ruskin	Sesame and Lilies
Scott	Lady of the Lake
Scott	Woodstock
Shakespeare	A Midsummer Night's Dream (Rolfe)
Shakespeare	As You Like It (Longmann)
Shakespeare	Hamlet (Rolfe)
Shakespeare	Julius Cæsar (Rolfe)
Shakespeare	King John (Rolfe)
Shakespeare	King Henry IV (Part I) (Rolfe)
Shakespeare	King Henry IV (Part II) (Rolfe)
Shakespeare	King Henry V (Rolfe)
Shakespeare	King Lear (Rolfe)
Shakespeare	King Richard II (Rolfe)
Shakespeare	King Richard III (Rolfe)
Shakespeare	Macbeth (Rolfe)
Shakespeare	Merchant of Venice (Rolfe)
Shakespeare	Othello (Rolfe)

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AUTHOR.	TITLE.
Shakespeare	Tempest (Rolfe)
Shakespeare	Twelfth Night (Rolfe)
Shaw	History of English Literature
Shelley & Keats	Selections
Socrates	Translation
Southworth	Composition and Grammar
Stevenson	Treasure Island
Tappan	Topical Notes on American Authors.
Taylor	Lars
Tennyson	Shorter Poems
Thackeray	The Newcomes
Warner	In the Wilderness
Webster	Academic Dictionary
Whitney & Lockwood	English Grammar
Whittier	Snowbound, Among the Hills, Songs of Labor
Wordsworth	Poetry of the People
Wordsworth	King Arthur Stories
Wordsworth	Robin Hood (Pyle Edition)
Wordsworth	Arabian Nights
Wordsworth	Don Quixote

FRENCH.

Text-Books:

About	Le Roi des Montagnes
Bacon	New French Course
Bacon	Une Semaine a Paris
Bazin	Contes Choisis
Bowen, ed.	Modern French Lyrics
Bruce	Dictees Francaises
Bruce	Grammaire Francaise
Bruno	La Tour de France
Cameron	French Prose Composition
Chardenal	Complete French Course
Constanseau	French Dictionary
Corneille	Le Cid
Daudet	La Belle Nivernaise
Delbos	Le Bourgeois Gentilhomme
Desnoyers	Les Mesaventures de Jean-Paul Choppart
Dike	Scientific French Reader
Dumas	La Tulipe Noire
Dumas	Monte Cristo
Enault	Le Chien du Capitaine
Feuillet	Le Roman d'un Jeune Homme Pauvre
Foa	Le Petit Robinson de Paris
Francois	Advanced French Composition

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AUTHOR.	TITLE.
Francois	Beginner's French
Francois	Introductory French Prose Composition
Francois & Giroud	Simple French
Fraser & Squair	French Grammar
Goodell	L'Enfant Espion
Grandgent	Prose Composition, Part I, based on L'Abbe Constantin
Grandgent	Prose Composition, Part IV, based on La Derniere Classe
Grandgent	Prose Composition, Part V, based on La Pipe de Jean Bart
Guerber	Contes et Legendes
Halevy	L'Abbe Constantin
Heath	French-English and English-French Dictionary
Hennequin	Lessons in Idiomatic French
Hugo	Les Miserables
Hugo	Quatre-vingt-treize
Josselyn & Talbot	Elementary Reader of French History
Kimball	Materials for French Composition based on Colomba
La Bedolliere	La Mere Michel et Son
Labiche & Martin	Le Voyage de M. Perrichon
La Fontaine	Fables
Lamartine	Jeanne d'Arc
Larousse	Dictionnaire
Larousse	Grammaire Complete
Loti	Pecheur d'Islande
Mairet	La Tache du Petit Pierre
Malot	Sans Famille
Mavigne & Gilson	French Sight Reading
Merimee	Colomba
Moliere	L'Avare
Moliere	Le Bourgeois Gentilhomme
de Musset	Histoire d'un Merle Blanc
Rogers	French Sight Reading
Sand	La Mare au Diable
Sandeau	Mlle. de la Seigliere
Sandeau	Sacs et Parchemins
Sarcey	Le Siege de Paris
Snow & Lebon	Easy French
Souvestre	Un Philosophe sous les Toits
Spiers & Surenne	French Dictionary
Super	French Reader
Theuriet	L'Abbe Daniel
Tuckerman	Simplicite
Verne	Tour du Monde en Quatre-vingt Jours
Worman	Grammaire Francaise

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Supplementary Books:

AUTHOR.	TITLE.
Bercy	Le Francais Pratique
Bruce	French Selections for Sight Translation
Coppee	Le Luthier de Cremone et Le Tresor
Duval	Petite Histoire de la Litterature Francaise
Erckmann-Chatrian	Le Conscrit de 1813
Fortier	Sept Grands Auteurs
Foucin	Le Pays de France
Hugo	La Chute
Kuhn	French Readings for Beginners
Labiche & Martin	La Poudre aux Yeux
Lavisse	La Deuxieme Annee d'Histoire de France
Legouve & Labiche	La Cigale chez les Fourmis
Mairet	L'Enfant de la Lune
Mariette	Half Hours of French Translation
de Ruy, Rachel	Rondes Enfantines
Sand	La Famille de Germandre
Super	Anecdotes Faciles
Syms	Easy French Reader
Syms	Selected Letters of Madame de Sevigne
Syms	Le Chien de Brisquet
Talbot	Le Francaise et Sa Patrie
Topffer	La Bibliotheque de Mon Oncle
Zola	La Debacle

GERMAN.

Text-Books:

Arnold	Ein Regentag und dem Lande
Arnold	Fritz auf Ferien
Bacon	German Grammar for Beginners
Bagster-Collins	First Year in German
Brandt	German Reader
Chamisso	Peter Schlemihl
Collar	Shorter Eysenbach
Dippold	Scientific German Reader
Erk	Liederschatz
Freytag	Aus dem Staat Freidrichs des Grossen
Freytag	Karl der Grosse
Fulda	Der Talisman
Goethe	Dichtung und Wahrheit
Goethe	Hermann und Dorothea
Guerber	Marchen und Erzahlungen
Hatfield	Materials for German Composition, based on Hoher als die Kirche
Heath	German Dictionary

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AUTHOR.	TITLE.
Heine	Die Harzreise
Heyse	Er Soll Dein Herr Sein
Heyse	L'Arrabbiata
Huss	German Reader
Jagemann	German Prose Composition
Jagemann	German Syntax
Joynes & Wesselhoeft	German Lesson Grammar
Kayser & Monteser	A Brief German Course
Kayser & Monteser	Foundations of German
Kayser & Monteser	German Grammar
Keller	Kleider machen Leute
Kohlrausch	Das Jahr 1813
Leander	Traumereien
Lessing	Minna von Barnhelm
Moltke	Die Beiden Freunde
Mondan	German Selections for Sight Translations
Muller & Wenckebach	Gluck Auf
Munchausen	Reisen
Pope	German Composition
Riehl	Der Fluch der Schonheit
Schiller	Thirty Years' War (Book III)
Schiller	Wilhelm Tell
Stolze	Bunte Geschichten
Seidel	Die Monate
Seidel	Leberecht Huhnchen
Spanhoofd	Deutsche Grammatik
Stifter	Das Heidedorf
Storm	Geschichten aus der Tonne
Storm	Immensee
Stroebe und Whitney	Geschichte der Deutschen Literatur
Thomas	German Grammar
Tuckerman	Am Anfang
Von Hillern	Hoher als die Kirche
Von Schiller	Der Neffe als Onkel
Vos	Essentials of German
Vos	Materials for German Conversation.
Wenckebach, ed.	Die Schonsten Deutschen Lieder
Wildenbruch	Das Edle Blut

Supplementary Books:

Auerbach	Brigitta
Bacon	Im Vaterland
Baumbach	Das Habichtsfraulein
Baumbach	Der Schweigersohn
Baumbach	Im Zwielicht
Benedix	Nein

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AUTHOR.	TITLE.
Bernhardt	Novelletten Bibliothek
Bernhardt	Stille Wasser
Burwirth	Words of Frequent Occurrence
Ebner-Eschenbach	Krambambuli
Ernst	Flachsmann als Erzieher
Freytag	Aus dem Jahrhundert des Grossen Krieges
Frommel	Eingeschneit
Gerstacker	Germelshausen
Gore	German Science Reader
Groller	Inkognito
Heyse	Anfang und Ende
Heyse	Das Madchen von Treppi
Keller	Bilder aus der Deutschen Litteratur
Lessing	Nathan der Weise
Meissner	Aus Meiner Welt
Mosher	Der Bibliotekar
Mosher	Willkommen in Deutschland
Riehl	Burg Neideck
Spyri	Rosenresli (ed. Boll)
Sudermann	Teja
Zschokke	Der zerbrochene Krug

HISTORY.

Text-Books:

Andrews	A History of England
Ashley	American Government
Botsford	A History of Greece
Botsford	A History of Rome
Bryce	American Commonwealth
Channing	Student's History of the United States
Cheyney	History of England
Emerton	Introduction to the Middle Ages
Fiske	Civil Government in the United States
Guitteau	Government and Politics in the U. S.
James & Sanford	Government in State and Nation
Mackenzie	The Nineteenth Century
McLaughlin	American Nation
Montgomery	Leading Facts in English History
Moore	Industrial History of the American People
Morey	Outlines of Roman History
Muzzey	American History
Myers	Ancient History
Myers	General History
Myers	Greece
Myers	Mediæval and Modern History
Myers	Middle Ages

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AUTHOR.	TITLE.
Myers	Modern Age
Myers	Rome; Its Rise and Fall
Oman	A History of Greece
Robinson & Beard	Development of Modern Europe
Walker	Political Economy
West	Modern History
Westerman	Story of the Ancient Nations
Woodburn & Moran	American History and Government
Wrong	History of the British Nation

Supplementary Books:

Adams	European History
Barnes	General History
Botsford	Ancient History for Beginners
Church	Greek Life and Story
Church	Stories from Herodotus
Church	Stories of the Persian Wars
Cranch	Vergil's Eneid
Dawes	How We are Governed
Fisher	Outlines of Universal History
Fiske	History of the United States
Goodspeed	History of the Ancient World
Hart	Source Book of American History
Johnston	History of the United States
Larned	History of England
Monro	Middle Ages
Sheldon	General History
Wilson	The State
Witt	Retreat of the Ten Thousand
Wright	Industrial History of the United States

MATHEMATICS.

Text-Books:

Atwood	Exercises in Algebra
Collins	Practical Algebra, First Year Course
Gore	Plane and Solid Geometry
Hawkes, Luby & Touton	First Course in Algebra
McCurdy	Exercise Book in Algebra
Merriman	Strength of Materials
Robbins	Plane Geometry
Robbins and Somerville	Exercises in Algebra
Schultz	Elementary Algebra
Schultze & Sevenoak	Plane Geometry
Slaught & Lennes	High School Algebra
Wells	New Higher Algebra
Wells	Plane Trigonometry with Tables
Wentworth	Elements of Algebra

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AUTHOR.	TITLE.
Wentworth	Plane and Solid Geometry
Wentworth	Plane and Spherical Trigonometry
Supplementary Books:	
Bailey & Woods	Analytic Geometry
Crawley	Elements of Trigonometry
Crawley	Table of Logarithms
Estill	Numerical Problems in Plane Geometry
Fine	College Algebra
Fisher & Schwatz	Quadratics and Beyond
Hall & Knight	Algebraical Exercises and Examination Papers
Hawkes	Advanced Algebra
Holton	Shop Mathematics
Jones	Drill Book in Algebra
Leighton	Harvard Examination Papers
Longmans	School Mensuration
Longmans	Four Place Log. Tables
Phillips & Strong	Elements of Trigonometry
Phillips & Strong	Trigonometry with Tables
Sheperd	Problems in Strength of Materials
Wells	Algebra for Secondary Schools
Wells	College Algebra
Wells	Plane and Solid Geometry
Wells	New Plane and Spherical Trigonometry
Wells	Logarithmic Tables
Wentworth	Arithmetic Problems
Wentworth	College Algebra
Wentworth	Geometrical Exercises

SCIENCE.

Text-Books:	
Atkinson	First Studies in Plant Life
Bailey	Beginner's Botany
Bergen	New Botany (Principles of Botany)
Bergen & Davis	Laboratory and Field Manual of Botany
Brownlee	First Principles of Chemistry
Carhart & Chute	High School Physics
Colton	Physiology
Comstock	Astronomy
Conn	Bacteria, Yeasts, and Molds in the Home
Cooley	Student's Manual of Physics
Davis	Physical Geography
Dryer	Lessons in Physical Geography
Eddy	Text Book in General Physiology
Fairbanks	Physiography

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AUTHOR.	TITLE.
Forman	Advanced Physics
Hall & Bergen	Physics
Harris	Chemical Analysis
Hessler & Smith	Essentials of Chemistry
Higgins	Lessons in Physics
Hough & Sedgwick	Elements of Hygiene and Sanitation
Irish	Qualitative Analysis
Jackson	An Elementary Book on Electricity and Magnetism
Jones	Heat, Light, and Sound
Miller	Progressive Problems in Physics
Milliken & Gale	First Course in Physics
Morgan and Lyman	Chemistry
Newell	Descriptive Chemistry
Newell	Experimental Chemistry
Norton	Food and Dietetics
Osterhout	Experiments with Plants
Peabody	Studies in Physiology
Pierce	Problems in Elementary Physics
Smith	General Chemistry for Colleges
Tarr	New Physical Geography
Todd	New Astronomy
Wentworth & Hill	Text-Book of Physics
Wilson	Laboratory Manual in Astronomy

Supplementary Books:

Adams	Laboratory Manual
Appleton	Handbook of Chemistry
Appleton	School Physics
Atkinson	Lessons in Botany
Avery	School Physics
Bailey	Lessons with Plants
Byrd	A Laboratory Manual in Astronomy
Coit	Chemical Arithmetic
Colton	Practical Zoology
Cooley	Student's Manual of Physics
Coulter	Plant Relations
Coulter	Plant Structures
Dana	Minerals and How to Study Them
Dobbin & Walker	Chemical Theory for Beginners
Gage	Principles of Physics
Gillett & Rolfe	Astronomy
Gray	Botany
Harris	Qualitative Analysis
Henderson & Woodhull	Elements of Physics
Hortvet	Elementary Practical Physics
Johnston	Chemistry of Common Life

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AUTHOR.	TITLE.
LeConte	Compend of Geology
Lockyer	Astronomy
Lodge	Elements of Mechanics
Martin	The Human Body
Noyes	Qualitative Chemical Analysis
Olsen	Pure Foods
Orton	Comparative Zoology
Peabody and Hunt	Elementary Plant Biology
Perkin & Lean	Introduction to Study of Chemistry
Remsen	Chemistry—Briefer Course
Remsen & Randall	Chemical Experiments
Richards	Chemistry of Cooking and Cleaning
Sabine	Laboratory Course in Physical Measurements
Seller	Qualitative Chemical Analysis
Thompson	A Nature Calendar
Tracey	Anatomy, Physiology and Hygiene
Walters	Physiology and Hygiene
Williams	Elements of Chemistry
Young	Lessons in Astronomy

ART.

Hamlin	History of Architecture
Van Dyke	History of Painting

MUSIC.

Dann	School Hymnal
Tomlins	The Laurel Song Book
Tupper	First Year Harmony
Tupper	Student's Hymnary

MECHANICAL DRAWING

Text-Books:

Atkinson, Mentzer, and Grover	Mechanical Drawing for High Schools, Part I
Hoffman	Elementary Machine Design
Mathewson	Notes for Mechanical Drawing

COMMERCIAL DEPARTMENT.

Text-Books:

Adams	Commercial Geography
Barnes	Complete Typewriting Instructor
Belding	Commercial Correspondence

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AUTHOR.	TITLE.
Bullock	Introduction to Study of Economics
Coman	Industrial History of United States
Eldredge	Shorthand Dictation Exercises
Ellis	Practical Bookkeeping
Gano	Commercial Law
Gilbert & Brigham	Introduction to Physical Geography
Mills	Modern Business Penmanship
Moore	Commercial Arithmetic
Packard	New Commercial Arithmetic
Pitman	Course in Isaac Pitman Shorthand
Pitman	Progressive Dictator
Redway	Commercial Geography
Webster	General History of Commerce
Williams & Rogers	New Practical Grammar and Correspondence
Williams & Rogers	Business Correspondence
Williams & Rogers	Seventy Lessons in Spelling
Williams & Rogers	Test Questions in Commercial Law
Supplementary Books:	
Clow	Introduction to Study of Commerce
Gonner	Commercial Geography
Smith	Proof Reading and Punctuation
Thurston	Economics and Industrial History
Webster	Little Gem Dictionary
Willoughby	Rights and Duties of American Citizenship

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LOCATION OF PUBLIC SCHOOLS

WITH THE AREA OF THEIR LOTS AND THE TERRITORIAL BOUNDARIES OF THE DISTRICTS.

CENTRAL HIGH SCHOOL.—On the south side of State street, between School and Maple streets. Area of lot, 79,874 square feet.

District: The whole city.

HIGH SCHOOL OF COMMERCE.—In Central High School building.

District: The whole city.

TECHNICAL HIGH SCHOOL.—On the east side of Elliott street. Area of lot, 66,785 square feet.

District: The whole city.

VOCATIONAL SCHOOL.—40 Taylor street (rented).

OPEN-AIR SCHOOL.—On the west side of Chestnut street, between Harriet and Cumberland streets.

District: The whole city.

ACUSHNET AVENUE PRIMARY AND GRAMMAR SCHOOL.—On the east side of Main street, corner of Acushnet avenue. Area of lot, 33,680 square feet.

For primary grades, this district is bounded on the north by Whitney avenue, Fremont and Central streets (not including these streets); on the east by the Central street district; on the south by Mill river.

For grades IV. and V., the northern boundary of this district is Fremont and Central streets (including them); on the east and south the same as for primary grades. South street is also included in this district.

ALDEN STREET PRIMARY SCHOOL.—Alden street, near the junction of Walnut and Hancock streets. Area of lot, 19,765 square feet.

This district, on the east, commences at the junction of Mill and Walnut streets, extends along Walnut to Florence, along Florence (not including it) to Hancock, Hancock to Ashley, Ashley to Cedar, Cedar to Lebanon (from Nos. 11-101), James, Queen, King (Nos. 12-144),

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Lebanon place, Hancock, Alden (from Walnut to Nos. 78 and 85 not inclusive), Greene (Nos. 17-44).

This district also includes the territory bounded by Hancock, Florence, Walnut, and Hickory streets (including these streets, except Florence); also Cottage avenue.

ARMORY STREET PRIMARY AND GRAMMAR SCHOOL.—On the west side of Armory street a short distance north of its junction with Liberty street. Area of lot, 56,700 square feet.

This district is bounded on the south by the Boston and Albany railroad, on the west by Cass street (including it from Linden to Liberty street). No northern and eastern boundaries are fixed.

BARROWS GRAMMAR SCHOOL.—On the southeast corner of Oak and Tyler streets, near the junction of Oak and Walnut streets. Area of lot, 37,498 square feet.

Children of grades V. to VII. residing in the Strickland and East Union street school districts attend this school.

The southern boundary line of this district extends from Pine street along Cedar and Lebanon (not including the last two) to Hancock, thence along Hancock street to Alden street, and along Alden street (not including it) easterly to Watershops pond. Colton street is also included in this district.

All the streets mentioned above are included in this district, except when otherwise stated.

Pupils of grade VII. residing in the section of the Tapley school district east of Florida street and north of St. James avenue (including it) may attend the Barrows school.

BOSTON ROAD PRIMARY AND GRAMMAR SCHOOL.—On the north side of Boston road, a little east of Jasper street, about four miles from Court Square. Area of lot, 22,500 square feet.

BRIGHTWOOD PRIMARY AND GRAMMAR SCHOOL.—At Brightwood, northeast corner of Plainfield street and Talcott avenue. Area of lot, 32,355 square feet.

This district includes the village of Brightwood. The eastern boundary is the Boston and Maine railroad. The southern boundary is Lowell and Plainfield streets to the railroad, including Lowell street.

BUCKINGHAM GRAMMAR SCHOOL.—On the southeast corner of Eastern avenue and Wilbraham road near Winchester Park. Area of lot, 37,123 square feet.

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This district is bounded on the north by St. James avenue from the Boston and Albany railroad to Florida street. On the west the line extends from St. James avenue along Florida street (not including it) to Bay street, along Bay and Pleasant streets (not including them) to State street; thence through the middle of State street to Hancock, along Hancock (not including it) to Monroe; along Monroe to the railroad.

East of the New England railroad, for grades VI. to IX., inclusive, this district includes the territory from Bay to King streets, inclusive.

Pupils of grades VIII. and IX. residing in that part of the Barrows school district bounded by Wilbraham road, Eastern avenue, and Beacon street (including these streets) attend this school. Pupils in grades VIII. and IX. residing in the Boston Road district attend this school.

CAREW STREET PRIMARY AND GRAMMAR SCHOOL.—On the south side of Carew street, near Main street. Area of lot, 35,911 square feet.

This district is bounded on the north by Sargeant, Carew, and Arbor streets (including them); on the east by Cass street north of Linden (including it). Thence the boundary line extends along Linden to Chestnut street and down Chestnut to Tenth street, through Tenth and Vine streets (including them). The western boundary is the Boston and Maine railroad.

Pupils of grades I. to V., inclusive, residing on Emery and Clinton streets attend this school.

CENTRAL STREET PRIMARY AND GRAMMAR SCHOOL.—Corner of Central and Spruce streets. Area of lot, 55,460 square feet.

The northern boundary line of this district extends from Maple street along Central to Cedar, along Cedar and Lebanon to Hancock, along Hancock (not including it) to Alden, along Alden street easterly (including the streets mentioned except where otherwise stated); on the west the line extends from the junction of Maple and Central streets, along by the foot of the hill west of Maple street to Locust street; on the south by Mill river from Locust street to Allen street, no boundary being fixed for the eastern side of the district. This district also includes Madison avenue and Sterns terrace.

Mill street and the easterly half of Central street, between Main and Maple streets, is regarded as belonging to Central street district for those who prefer it on account of its nearness.

Pupils of grades I. to IV., inclusive, residing in that part of the Alden street district which lies within the boundaries of the Central street district attend the Alden street school.

Pupils of grades I. to V., inclusive, residing in that part of the Eastern

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avenue district which lies within the boundaries of the Central street district attend the Eastern avenue school.

CHARLES STREET PRIMARY SCHOOL.—On the north side of Franklin street, opposite Charles street. Area of lot, 9,856 square feet.

This district is bounded on the north by Tenth street (not including it); on the east by Cass street, south of Linden, Webster, and Vinton streets, and Liberty street west of Webster street (including them); on the south by the Boston and Albany railroad; on the west by a line cutting Greenwood and Franklin streets at Nos. 93 and 94 (not including them), Congress street east of Nos. 58 and 59 (including them), and by Chestnut street from Tenth street to the Boston and Albany railroad.

The district includes Cass street south of Linden, Webster, Vinton, Liberty street west of Webster, Chestnut street south of Tenth and north of the Boston and Albany railroad. It also includes Greenwood and Franklin streets east of Nos. 93 and 94 (not including these numbers), and Congress street east of Nos. 58 and 59 (including them).

CHESTNUT STREET GRAMMAR SCHOOL.—On the east side of Chestnut street, near Prospect street. Area of lot, 138,794 square feet.

This district includes all the territory in the northern part of the city, the southern boundary being the Boston and Albany railroad.

Pupils of grades VI. and VII. residing in those parts of this district which are included in the Lincoln, Worthington street, and Armory street districts attend the latter schools.

EASTERN AVENUE PRIMARY AND GRAMMAR SCHOOL.—On the corner of Eastern avenue and Alden street. Area of lot, 27,560 square feet.

This district is bounded on the north by King street, from Nelson avenue to its easterly terminus; on the west by Nelson avenue from King to Greene street, thence the boundary line extends along Greene street to Eastern avenue, along Eastern avenue to Manhattan, along Manhattan to Walnut, along Walnut to Hickory, along Hickory east, no easterly boundary being fixed for the district. All the foregoing streets, except Walnut, are included in this district, as also Alden street east of and including Nos. 78 and 85. Cottage avenue is not included in this district.

For grades IV. and V., this district includes Lebanon place, Lebanon street (between Nelson avenue and Hancock street), and Hancock street between King and Alden streets.

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EAST UNION STREET PRIMARY SCHOOL.—On the north side of Union street, between Hancock street and Eastern avenue. Area of lot, 24,298 square feet.

The boundary line of this district extends from State street along Hancock street to Monroe street, along Monroe street to Eastern avenue, thence along Eastern avenue to Wilbraham road, along Wilbraham road to the railroad, along the railroad to King street, along King street (not including it) to Hancock street, and along Hancock to State street before mentioned, including all the streets mentioned except where otherwise stated.

FOREST PARK GRAMMAR SCHOOL.—On Garfield street, off Belmont avenue. Area of lot, 120,118 square feet.

All the children of grades VI. to IX. living in the Sumner avenue and Kensington avenue school districts, and all children of grades VII. to IX. living in the White street school district, will attend this school.

HOMER STREET PRIMARY AND GRAMMAR SCHOOL.—On Homer street, between State street and Wilbraham road. Area of lot, 53,469 square feet.

This district is bounded on the west by the New England railroad, except that Cambridge street, Dawes street, Andrew street north of Burr, and Burr street between Cambridge and the New England railroad, are not included in this district; on the north by Bay street (including it); on the south by the Eastern avenue district, no boundary being fixed for the eastern side of the district.

HOOKER PRIMARY AND GRAMMAR SCHOOL.—On the east side of Main street, between Tenth and Greenwood streets. Area of lot, 33,407 square feet.

This district is bounded on the north by Tenth and Vine streets (not including them); on the east by a line cutting Greenwood and Franklin streets at Nos. 93 and 94 (including them), Congress street at Nos. 58 and 59 (not including them), Sharon street at Nos. 135 and 136 (not including them), Ferry street at Nos. 169 and 172 and Liberty street at No. 76 (including them); on the south by the Boston and Albany railroad; on the west by Fulton street from Vine street to Cypress street (not including Clinton and Emery streets); Main street from Tenth street to the arch is included in this district.

For grades IV. and V., this district is bounded on the east by Chestnut street between Tenth and Sharon streets.

This district includes Congress street in grades IV. and V.

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This district includes pupils of grades I. to III., inclusive, living south of the Boston and Albany railroad, west of Main street, and north of Bridge street (not including it).

HOWARD STREET PRIMARY AND GRAMMAR SCHOOL.—On the south side of Howard street. Area of lot, 51,640 square feet.

This district is bounded on the north by Bridge street (not including it between Main and Chestnut streets); on the east by Chestnut and Maple streets (not including these streets) from Bridge street to Cross street; on the south by Cross and Howard streets.

Children of grades VI. and VII. living in the Acushnet avenue school district and children of grades IV.A to VII. living in the William street school district also attend this school.

All the streets mentioned above are included in this district, except when otherwise stated.

Mill street and the easterly half of Central street, between Main and Maple streets, is regarded as belonging to Central street district for those who prefer it on account of its nearness.

INDIAN ORCHARD PRIMARY AND GRAMMAR SCHOOL.—At the corner of Worcester and Myrtle streets, Indian Orchard village. Area of lot, 54,639 square feet.

This district includes the village of Indian Orchard, except that for primary grades it includes only the section west of Cedar street.

INDIAN ORCHARD PRIMARY SCHOOL.—Main street, Indian Orchard village. Area of lot, 30,122 square feet.

This district includes that part of the village (for primary grades only) lying east of Cedar street (not including it).

JEFFERSON AVENUE PRIMARY AND GRAMMAR SCHOOL.—On the south side of Jefferson avenue, corner of North street. Area of lot, 20,003 square feet.

This district is bounded on the north by Calhoun and Huntington streets (including them); on the west by the Boston and Maine railroad; on the south by Sargeant and Carew streets (not including them), no eastern boundary being fixed for this district.

KENSINGTON AVENUE PRIMARY AND GRAMMAR SCHOOL.—On the south side of Kensington avenue, between Earl and Oakland streets. Area of lot, 110,320 square feet.

This district is bounded on the north by Mill river and on the south by Forest Park. The eastern boundary line extends from Mill river

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along White street to Pasadena street, along Pasadena street to Alderman street, along Alderman street to Ventura street, along Ventura street to Sumner avenue, along Sumner avenue to Dickinson street, and along Dickinson street to Longmeadow line.

The western boundary line extends from Mill river along Fort Pleasant avenue and Forest Park avenue to Forest Park; exclusive of Belmont avenue from No. 176 to Mill street; Woodside terrace, Leyfred terrace, and Blake hill; also the area bounded by Garfield street, Churchill street, Sumner avenue, and Forest Park avenue.

LINCOLN PRIMARY AND GRAMMAR SCHOOL.—On the west side of Chestnut street, between Harriet and Cumberland streets. Area of lot, 30,713 square feet.

This district is bounded on the west by the Boston and Maine railroad; on the south by Calhoun and Huntington streets (not including them), no boundaries being fixed for the northern and eastern sides of this district.

Pupils of grades V. to VII. living in the Brightwood district attend this school.

SCHOOL STREET PRIMARY AND GRAMMAR SCHOOL.—Southeast corner of School and High streets. Area of lot, 86,156 square feet.

This district is bounded on the north by Pearl street (not including it), and by State from Byers street to Walnut street; on the west by Chestnut and Maple streets, from Pearl to Avon place; on the south by Avon place, Mulberry and Union streets to Walnut, and on the east by Walnut street (not including it), including the streets mentioned, except when otherwise stated.

STATE STREET GRAMMAR SCHOOL.—On the south side of State street, west of the Central high school. Area of lot, 30,992 square feet.

This school is for pupils of grades VIII. and IX. only, residing in the Barrows, Howard street, and that part of the Worthington street district south of the railroad, and in that part of the Tapley district east of Florida street and north of St. James avenue (including it). Pupils of grades VII., VIII., and IX., residing in the School street district, also attend this school.

STRICKLAND PRIMARY AND GRAMMAR SCHOOL.—On the southwest corner of Oak and Union streets. Area of lot, 15,753 square feet.

This district is bounded on the north by the Boston and Albany railroad. The eastern boundary extends from the railroad to Florida

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street, and along Florida street (not including it) to Bay street, along Bay and Pleasant streets (not including them) to State street, thence through the middle of State street to Hancock street, and along Hancock (not including it) to King street. On the south the district is bounded by King and James streets (not including them); on the west the line extends from the railroad to Federal street, along Federal and Walnut streets (including them) to Pine street, and along Pine street (including it) to Cedar street.

Sumner Avenue Primary and Grammar School.—On the south side of Sumner avenue between Beechwood avenue and Long Hill street. Area of lot, 98,000 square feet.

This district is bounded on the north by Mill river; on the east the boundary line extends along Belmont avenue from Mill street to No. 176, inclusive, and continuing along Belmont avenue to Garfield street (not including this latter section of Belmont avenue), along Garfield street to Churchill street, along Churchill street to Sumner avenue (including these two streets); on the south by Forest Park and by Sumner avenue (between Churchill street and Forest Park avenue). In addition, the district shall include Woodside terrace, Leyfred terrace, and Blake hill.

Children of kindergarten age living in the section bounded by Churchill street, Garfield street, Belmont avenue, Dickinson street (from Belmont avenue to Forest Park), and Forest Park, and also children living on Mill street (from Locust street to Pine street) may attend the Sumner avenue school at the option of their parents, and children from these sections who are regular attendants of the Sumner avenue kindergarten will be enrolled as pupils of the school upon their promotion to first grade. If there is room for them, children from these sections applying for admission to grades above the first will be enrolled in the school, with the understanding that they will be transferred to their own particular districts as soon as the grade is filled by pupils residing within the Sumner avenue school district.

Tapley Primary and Grammar School.—On the southwest corner of Bay and Sherman streets. Area of lot, 92,626 square feet.

This district is bounded on the north by the Boston and Albany railroad. On the west the line extends from the railroad to Florida street, and along Florida street (including it) to Bay street. Thence the line extends through Bay and Pleasant streets (including them) to State street, thence along State street (including it, except the south side between Stebbins and Hancock streets) to the New England railroad

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(including Winchester and Hawley streets). This district is bounded on the east by the New England railroad, except that Cambridge street, Dawes street, Andrew street north of Burr, and Burr between Cambridge and the New England railroad, are included in this district.

WHITE STREET PRIMARY AND GRAMMAR SCHOOL.—On the west side of White street between Dawson avenue and Buckler street. Area of lot, 100,000 square feet.

This district is bounded on the north by the Watershops pond; on the west the boundary line extends from the Watershops pond along White street to Pasadena street, along Pasadena street to Alderman street, along Alderman street to Ventura street, and along Ventura street to Sumner avenue, along Sumner avenue to Dickinson street, along Dickinson street to the Longmeadow line. On the south this district is bounded by Longmeadow, no eastern boundary being fixed.

WILLIAM STREET PRIMARY SCHOOL.—On the south side of William street between Main and Water streets. Area of lot, 35,602 square feet.

This district is bounded on the north by Howard and Cross streets (not including them); on the east by Maple street (not including it); and on the south by Whitney avenue, Fremont, and Central streets, including these streets.

WORTHINGTON STREET PRIMARY AND GRAMMAR SCHOOL.—On the south side of Worthington street, east of Spring street. Area of lot, 30,756 square feet.

This district includes, north of the Boston and Albany railroad, pupils of grades I. to VII., inclusive, living on Sharon street east of Nos. 135 and 136 (including them); on Ferry street east of Nos. 169 and 172 (not including it); and on Liberty street at No. 76 (not including it) and Chestnut street. It also includes pupils of grades IV. to VII., inclusive, living on Chestnut street south of Sharon street.

On the south side of the Boston and Albany railroad, the boundary line for grades I. to VII., inclusive, extends along the Connecticut river to Bridge street, along Bridge street to Chestnut, including Bridge street only from Main to Chestnut; thence along Chestnut to Pearl, along Pearl to Federal, and along Federal to the Boston and Albany railroad, all the streets named being included.

Pupils of grades I. to III., inclusive, residing in that portion of the Worthington street school district west of Main street and south of the Boston and Albany railroad attend the Hooker school.

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DRY BRIDGE UNGRADED SCHOOL.—On St. James circle near St. James avenue. Area of lot, 11,530 square feet.

FIVE MILE POND UNGRADED SCHOOL.—At Dimmock's Corner, on the Boston road about five miles from Court Square. Area of lot, 18,887 square feet. (Closed.)

GLENWOOD UNGRADED SCHOOL.—On the north side of Springfield street, near its junction with Armory street, and near the Chicopee line. Area of lot, 43,656 square feet.

SIXTEEN ACRES UNGRADED SCHOOL.—Near Sixteen Acres pond, and near the junction of North Wilbraham road with the road leading from Ludlow to East Longmeadow, about six miles from Court Square. Area of lot, 15,056 square feet.

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STATISTICS OF THE

SPRINGFIELD HIGH SCHOOLS.

CENTRAL HIGH SCHOOL

FROM ITS ORGANIZATION IN 1849 TO 1913.

YEAR.	Number of Pupils.	Number of Graduates.	YEAR.	Number of Pupils.	Number of Graduates.
1849	158		1882	346	44
1850	170		1883	322	42
1851	185		1884	322	49
1852	159		1885	348	34
1853	170		1886	379	43
1854	176		‡1887	372	61
1855	186		1888	370	52
*1856	166	9	1889	344	61
1857	156	14	1890	345	45
1858	172	14	1891	391	56
1859	166	17	1892	408	52
1860	173	25	1893	429	53
1861	163	13	§1894	468	53
1862	177	17	1895	483	51
1863	174	15	1896	484	58
1864	162	5	1897	525	86
1865	146	21	1898	569	83
1866	137	10	1899	622	70
1867	148	12	1900	657	124
1868	195	16	1901	704	84
†1869	217	2	1902	751	103
1870	207	14	1903	763	111
1871	181	19	1904	890	120
1872	172	24	1905	975	133
1873	185	21	1906	1002	158
1874	201	20	‖1907	730	130
1875	246	16	1908	697	112
1876	336	33	1909	771	132
1877	354	27	1910	767	120
1878	407	51	1911	813	91
1879	426	54	1912	831	118
1880	405	58	1913	813	117
1881	372	46			

TECHNICAL HIGH SCHOOL.¶

1899	18		‖1907	681	66
1900	61		1908	787	78
1901	77	2	1909	928	65
1902	90	3	1910	1,051	88
1903	120	16	1911	669	60
1904	162	18	1912	791	52
1905	180	13	1913	857	78
1906	223	14			

HIGH SCHOOL OF COMMERCE.

1911	480	40	1913	579	68
1912	547	69			

*Previous to this date there were no graduating exercises.

†The course was changed this year from three to four years.

‡This was the first year that any pupils were graduated in the two years' Business Course.

§The Business Course was abolished after 1894.

¶The Technical High School was organized in August, 1898.

‖Commercial Department transferred from Central High to Technical High in September, 1906.

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TABLE SHOWING THE GRADUAL DROPPING OUT OF PUPILS IN THE VARIOUS GRADES.

NUMBER OF PUPILS IN EACH GRADE.

	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	Freshman.	Sophomore.	Junior.	Senior.	Post-Grad.
January, 1891,	1234	766	681	577	511	408	295	260	221					
January, 1892,	1307	893	841	541	522	468	327	245	232					
January, 1893,	1311	1013	918	648	483	477	350	236	230					
January, 1894,	1434	990	996	659	584	505	342	238	248					
September, 1894,	1618	936	1030	795	640	530	350	266	250	174	154	69	63	
September, 1895,	1639	1053	1035	794	724	513	445	277	263	177	126	96	65	
September, 1896,	1723	1020	1180	817	785	621	460	283	258	204	118	86	104	
September, 1897,	1731	1134	1211	980	789	754	474	381	274	206	159	93	88	15
September, 1898,	1775	1145	1287	965	875	657	635	382	299	227	159	123	80	32
September, 1899,	1789	1174	1243	1029	952	786	559	486	380	243	174	130	114	13
September, 1900,	1717	1068	1294	1107	904	884	621	463	380	293	206	142	83	28
September, 1901,	1717	1265	1226	1152	1024	892	759	548	378	298	212	68	104	26
September, 1902,	1685	1297	1276	1088	1135	903	768	655	416	316	214	179	124	27
September, 1903,	1773	1319	1180	1341	1072	986	799	633	464	390	260	172	132	18
September, 1904,	1610	1314	1265	1260	1025	984	912	639	478	433	335	207	121	36
September, 1905,	1663	1293	1271	1266	1140	977	881	661	560	350	248	229	132	16
September, 1906,	1484	1375	1267	1249	1151	1025	941	712	514	509	338	236	185	16
September, 1907,	1565	1348	1283	1221	1203	1059	970	792	593	464	353	272	176	16
September, 1908,	1679	1615	1225	1339	1134	1164	974	914	650	584	363	202	192	38
September, 1909,	1950	1395	1352	1264	1176	1122	995	924	741	638	409	299	225	35
September, 1910,	1774	1404	1402	1303	1200	1148	1052	863	761	694	455	338	181	37
September, 1911,	1731	1543	1373	1347	1300	1076	1058	926	716	729	492	366	226	25
September, 1912,	1968	1397	1465	1311	1352	1139	1035	949	808	696	536	405	238	21
September, 1913,	2218	1677	1481	1423	1347	1345	1162	898	690	787	547	450	277	25

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EXPENDITURES, SCHOOL POPULATION, AND ENROLLMENT.

From the Organization of the City in 1852 to 1913.

From 1852 to 1856 expenditures for repairs were included in current expenses.
The Manual Training School was established in 1886 (reorganized as the Mechanic Arts High School in 1896); the Cooking School in 1898; and the public Kindergarten in 1894. The amounts expended under these heads are included under "Current Expenses."

YEAR.	Current Expenses.	Repairs and Alterations.	New Buildings.	School Census.	Enrollment.	Aver. No. Belonging.
1852	$6,558 89	.....	.....	2,188	2,270	1,549
1853	13,257 31	.....	.....	2,253	2,273	1,642
1854	15,049 89	.....	.....	2,449	2,561	1,621
1855	16,451 22	.....	.....	2,641	2,409	1,769
1856	17,501 03	.....	.....	2,606	2,441	1,815
1857	18,727 67	$4,146 81	$6,403 47	2,525	2,459	1,824
1858	18,494 40	3,144 54	671 00	2,675	2,569	1,862
1859	18,315 77	2,939 82	1,553 16	2,505	2,546	1,855
1860	18,115 04	3,532 04	.....	2,472	2,594	1,934
1861	17,961 30	2,956 24	.....	2,688	2,752	1,959
1862	19,358 08	2,601 92	.....	3,090	3,027	2,133
1863	22,361 56	939 55	.....	3,341	3,806	2,342
1864	29,941 54	5,662 30	10,645 00	3,709	3,753	2,298
1865	37,242 93	5,516 10	53,969 78	3,713	3,822	2,490
1866	48,542 28	5,728 90	59,062 72	3,846	3,675	3,187
1867	54,423 56	3,718 32	41,267 84	4,225	3,760	3,266
1868	66,544 60	7,529 04	62,270 59	4,141	4,029	3,304
1869	68,524 83	7,778 57	34,285 49	4,156	4,617	3,509
1870	73,636 97	4,027 70	12,444 57	4,232	4,679	3,822
1871	79,489 26	4,096 28	28,490 00	4,167	4,901	3,717
1872	92,286 88	5,086 27	71,202 63	4,331	4,853	3,674
1873	96,389 77	16,760 80	53,095 82	4,399	5,238	3,900
1874	110,066 43	16,545 76	69,979 01	4,712	5,448	4,071
1875	115,788 04	21,958 95	17,098 75	5,668	5,743	4,296
1876	106,949 96	5,221 48	.....	5,408	5,890	4,481
1877	89,489 74	2,938 91	.....	5,375	5,877	4,615
1878	83,087 62	1,708 02	.....	5,379	5,625	4,296
1879	81,780 65	2,528 04	.....	5,524	5,636	4,475
1880	83,053 74	7,497 14	1,169 69	5,865	5,834	4,538
1881	88,267 73	9,240 86	.....	6,285	5,981	4,667
1882	92,081 29	9,088 23	.....	6,452	6,054	4,727
1883	98,624 28	10,672 68	17,228 99	6,566	6,070	4,661
1884	107,523 95	10,159 73	7,664 96	6,583	5,520	4,827
1885	111,851 90	7,490 23	1,626 17	6,330	5,665	4,517
1886	109,990 53	7,021 26	.....	6,472	5,813	4,648
1887	115,749 65	9,399 94	19,053 56	6,516	5,841	4,643
1888	124,739 06	9,348 20	30,712 40	6,416	5,922	4,647
1889	134,938 12	9,314 65	39,072 98	6,935	6,165	4,962
1890	146,488 62	16,208 53	48,943 67	7,054	6,455	5,180
1891	157,644 68	17,630 70	76,052 19	7,134	7,214	5,128
1892	163,570 40	10,447 98	13,829 18	7,318	7,805	5,585
1893	172,296 48	11,549 10	26,314 01	7,716	8,357	5,799
1894	184,592 41	10,995 75	46,562 87	8,002	8,553	6,340
1895	198,620 20	13,647 77	26,758 82	8,041	8,962	6,661
1896	219,531 84	8,911 17	43,878 11	8,807	9,670	7,074
1897	239,679 72	16,095 06	238,196 30	8,814	9,494	7,869
1898	265,158 05	38,881 39	363,249 04	9,202	10,044	8,260
1899	302,854 35	12,706 09	71,783 82	9,738	10,786	9,072
1900	321,804 66	11,437 20	81,698 41	10,251	11,261	9,300
1901	339,677 59	24,030 85	94,340 94	10,405	11,574	9,612
1902	351,999 63	13,167 60	96,268 67	10,899	12,162	10,206
1903	359,317 47	15,438 28	100,385 33	11,490	12,542	10,290
1904	399,359 63	17,847 82	87,274 88	11,738	12,842	10,818
1905	400,821 51	18,216 94	256,946 05	*13,059	13,161	11,183
1906	424,437 43	20,671 47	149,771 35	*13,359	13,601	11,372
1907	+373,330 38	+21,552 30	+122,727 70	*13,786	13,796	11,516
1908	485,064 25	25,613 77	139,180 18	*14,091	14,451	12,378
1909	509,693 30	26,425 33	46,449 47	*14,335	14,966	12,808
1910	546,894 49	29,136 91	43,141 00	*14,659	15,576	13,024
1911	599,246 97	23,458 83	88,861 00	*15,291	16,074	13,550
1912	640,527 83	35,716 10	42,087 33	*15,915	16,584	13,847
1913	696,066 08	37,072 32	218,386 62	*16,855	17,492	14,563

*From five to sixteen years of age.
†Expenditures are for 11 months.

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TABLE GIVING A BRIEF DESCRIPTION OF SCHOOL PROPERTY; ALSO THE VALUE OF SCHOOLHOUSES AND LOTS, ETC.

BUILDINGS.	Wood or Brick.	No. of Stories.	No. of School-Rooms.	No. of Recitation Rooms.	No. of Desks and Seats.	Condition.	Date of Occupation.	Heating Apparatus.	Value of Land.	Value of Buildings.	Value of Furniture.	TOTAL.	Area Lots. (Square Feet.)
Acushnet Avenue	B	2	11	2	478	Good	1896	Steam	$16,000 00	$45,000 00	$2,400 00	$63,400 00	33,680
Alden Street	B	2	4		168	Good	1890	Steam	4,500 00	14,000 00	306 00	18,806 00	19,765
Armory Street	B	2	20		822	New	1901	Steam	8,500 00	145,300 00	2,633 26	156,433 26	56,700
Barrows	B	3	10	1	430	Good	1868	Steam	9,500 00	39,000 00	789 13	49,289 13	37,498
Boston Road	W	2	4		148	New	1899	H. A.	1,500 00	6,900 00	1,100 00	9,500 00	22,500
Brightwood	B	2	6	1	275	Good	1899	Steam	6,500 00	34,800 00	1,430 00	42,730 00	32,355
Buckingham	B	2	12	2	560	Good	1891	H. A.	30,000 00	48,000 00	2,351 00	80,351 00	37,123
Carew Street	B	2	14	1	552	Good	1894	H. A.	18,000 00	45,000 00	946 00	63,946 00	35,911
*Carlisle	B	2	1			Good		Stove	3,000 00	200 00		3,200 00	17,192
Central Street	B	3	15		646	Good	1871	Steam	12,500 00	74,300 00	1,708 15	88,508 15	55,460
Charles Street	B	2	4		180	Good	1890	Steam	4,000 00	14,000 00	248 00	18,248 00	9,856
Chestnut Street	B	3	36	7	1,431	New	1903	Steam	41,000 00	244,000 00	6,273 78	291,273 78	138,794
Dry Bridge	W	1	1		32	Good	1881	Stove	1,000 00	1,200 00	125 00	2,325 00	11,530
Eastern Avenue	B	2	7	1	284	Good	1899	H. A.	4,500 00	30,000 00	1,074 00	35,574 00	27,560
East Union Street	B	2	7		302	Good	1876	Steam	4,000 00	23,000 00	1,235 00	28,235 00	24,298
Five Mile Pond	B	2	2		32	Good		Stove	200 00	2,000 00	45 00	2,245 00	18,887
Forest Park	B	3	19	4	750	Good	1899	Steam	30,000 00	85,000 00	2,400 00	117,400 00	120,118
Glenwood	B	2	4		65	New	1903	Steam	2,500 00	16,000 00	747 31	19,247 31	43,656
High (Central)	B	3	16	23	795	Good	1898	Steam	115,200 00	350,000 00	15,000 00	480,200 00	79,874
High (Commercial)									174,200 00			174,200 00	129,480
High (Technical)	B	3	19		819	New	1906	H. W.	33,400 00	280,000 00	18,601 14	332,081 14	66,785
Homer Street	B	2	10		422	Good	1898	Steam	12,000 00	36,000 00	1,737 00	49,737 00	53,469
Hooker	B	3	13		555	Good	1866	Steam	148,600 00	60,000 00	2,315 00	210,915 00	33,407
Howard Street	B	2	19		714	New	1906	Steam	38,600 00	46,000 00	2,825 00	87,425 00	51,640
I. O. Grammar	B	3	12	1	499	Good	1868	Steam	6,500 00	65,000 00	1,423 00	72,923 00	54,639
I. O. Primary	W	2	4		159	Good	1898	H. A.	3,000 00	12,000 00	720 00	15,720 00	30,122
Jefferson Avenue	B	2	12	1	459	Good	1889	Steam	7,500 00	40,000 00	1,000 00	48,500 00	20,003
Kensington Avenue	B	2	14	2	533	New	1909	Steam	10,500 00	98,000 00	3,152 75	111,652 75	110,320
Lincoln School	B	2	14		587	New	1910	Steam	24,000 00	87,700 00	4,272 60	115,972 60	30,713
***Pynchon	B	2				Good	1891	H. A.	53,200 00	38,000 00		91,200 00	14,013
School Street	B	2	4	1	187	Good	1892	Steam	18,500 00	18,000 00	600 00	37,100 00	86,156
Sixteen Acres	B	2	2	2	42	Good		Stove	500 00	2,000 00	42 00	2,542 00	15,056
State Street	B	3	14	2	563	Good	1874	Steam	51,700 00	78,000 00	3,025 00	132,725 00	30,992
Strickland	B	2	6		268	Good	1884	H. A.	5,000 00	20,000 00	613 00	25,613 00	15,753
Sumner Avenue	B	2	8	2	217	New	1912	Steam	28,600 00	58,000 00	2,975 74	89,575 74	98,000
Tapley	B	2	14	2	631	Good	1888	Steam	22,000 00	70,000 00	2,469 91	94,469 91	92,626
*Wachogue	W	1	1	2	40	Fair		Stove	200 00	800 00	35 00	1,035 00	8,275
White Street	B	2	10		412	New	1905	Steam	14,000 00	49,500 00	2,066 32	65,566 32	100,000
William Street	B	2	11	2	400	New	1901	Steam	14,000 00	58,000 00	2,200 00	74,200 00	35,602
Worthington Street	B	3	12	1	492	Good	1869	Steam	12,000 00	45,000 00	848 00	57,848 00	30,756
York Street									2,000 00			2,000 00	6,328
Open-Air	W	1	1		40	Good	1911			700 00	125 00	825 00	
Vocational			4	1	44						260 00	260 00	
Storehouse, Emery St.	B	2				New	1913	Steam	5,400 00	22,400 00	100 00	27,900 00	6,806
Old office, Vernon St.	W	2				Poor		Steam	19,800 00	3,000 00		22,800 00	6,872
			397	61	16,033				$1,017,600 00	$2,405,900 00	$92,218 09	$3,515,718 09	

*Unused.

***Used by city for Municipal Building, Jan. 23, 1905, to Nov., 1913.

Under Heating Apparatus, H. A.=Hot Air.
" " " H. W.=Hot Water.

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TEACHERS' SALARIES.

(REGULAR MAXIMUM.)

High Schools:—	
Principals,	$2,800—$3,500
Teachers, men,	1,000—2,400
Teachers, women,	800—1,700
Teacher of Music (part time),	400
Grammar Schools:—	
Principals,	1,500—2,830
Principal's Assistant (Grade IX.),	850—900
Principals of Primary and lower Grammar Grades,	850—1,450
Principals of Primary Schools,	900
Teachers of Grades I.-VII., inclusive,	750
Assistants, not in charge of room,	450—650
Kindergartens:—	
Head Kindergartners,	650—750
Assistants,	450—550

SUPERVISORS AND SPECIAL TEACHERS.

Supervisor of Drawing,	$1,600
Assistant Supervisors of Drawing,	850—900
Supervisor of Music,	2,000
Assistant Supervisor of Music,	1,000
Supervisor of Elementary Science,	1,100
Supervisor of Physical Training,	2,000
Supervisor of Manual Training in Grammar Grades, and Principal of Vocational School,	2,500
Teachers of Sewing,	700—900
Teachers of Manual Training in Grammar Grades,	900—1,600
Teachers of Cooking,	700—900

Assistants in Grades I.-VI. inclusive, salaries fixed by the Board.

There are special maximum salaries, as follows: For Grades I.-VII., $800; for Grade VIII., $850; and for Grade IX., $900. These salaries are granted only to teachers who are doing work of superior excellence, and a unanimous vote of the entire Board, excepting the Mayor, is required to grant the whole or any portion of them.

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SALARIES OF JANITORS.

Schools.	Salary per week.
Acushnet Avenue,	$20.00
Alden Street,	13.00
Armory Street,	22.00
Barrows,	19.00
Boston Road,	13.00
Brightwood,	17.00
Buckingham,	20.00
Carew Street,	20.00
Central Street,	22.00
Charles Street,	13.00
Chestnut Street, Engineer,	24.00
Chestnut Street, Janitor,	16.00
Chestnut Street, Janitor,	16.00
Dry Bridge,	4.00
Eastern Avenue,	17.00
East Union Street,	17.00
Five Mile Pond,	4.00
Forest Park,	22.00
Glenwood,	13.00
High (Central), Engineer,	25.90
High (Central), Fireman,	19.00
High (Central), Janitor,	16.00
High (Central), Janitor,	16.00
High (Technical), Engineer,	23.01
High (Technical), Fireman,	19.00
High (Technical), Night Fireman and Watchman,	17.00
High (Technical), Janitor,	16.00
High (Technical), Janitor,	16.00
Homer Street,	19.00
Hooker,	22.00
Howard Street,	22.00
Indian Orchard Primary,	17.00
Indian Orchard Grammar,	20.00
Jefferson Avenue,	19.00
Kensington Avenue,	20.00
Lincoln School,	22.00
School Street,	13.00
Sixteen Acres,	5.00
State Street,	16.00
Strickland,	17.00
Sumner Avenue,	17.00
Tapley,	22.00
White Street,	19.00
William Street,	19.00
Worthington Street,	19.00
Emery Street Storehouse,	17.00

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SPRINGFIELD PUBLIC SCHOOLS

RATES OF TUITION FOR NON-RESIDENT PUPILS.

DAY SCHOOLS.	First Term.	Second Term.	Third Term.	Fourth Term.	Year.
High Schools,	$40.00	$20.00	$20.00	$20.00	$100.00
Grammar Schools,	14.00	7.00	7.00	7.00	35.00
Primary Schools,	8.00	4.00	4.00	4.00	20.00
Ungraded Schools,	8.00	4.00	4.00	4.00	20.00
Vocational School,	40.00	20.00	20.00	20.00	100.00

EVENING SCHOOLS.	FOR THE SEASON.
High,	$15.00
Grammar and Primary,	20.00
Draughting,	10.00
Free-hand Drawing,	10.00
Trade Classes,	20.00

Tuition is payable one term in advance. It should be paid directly to the City Collector at Administration Building, who will give a receipt for it. Upon presentation of this receipt to the Superintendent a permit will be given the pupil for admission to school.

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REPORT

OF THE

BOARD OF COMMISSIONERS OF THE FIRE DEPARTMENT

SPRINGFIELD, MASS., December 29, 1913.

To His Honor, the Mayor, and Members of the City Council.

The annual report of the Board of Commissioners of the Fire Department for the year ending November 30, 1913, is herewith respectfully submitted:—

MEMBERSHIP OF BOARD.

Charles F. Brown, term expires first Monday of May, 1914.
Frank H. Wesson, term expires first Monday of May, 1915.
Edward A. McClintock, term expires first Monday of May, 1916.
Octave A. LaRiviere, term expires first Monday of May, 1917.
Robert N. Ingersoll, Alderman and Chairman of the Fire Department Committee of the City Council, *ex officio*.

Organization: Chairman, Edward A. McClintock; Secretary, Frank H. Wesson; Clerk, Louis E. Shattuck.

EXPENSES.

Consideration of the expenses of the department should be based upon the fact that the figures quoted cover a period of

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thirteen months instead of twelve, a condition brought about by a change in the method of paying bills against the city.

To the original appropriation of $260,457.00 the sum of $300.00 was transferred, making the total appropriation $260,757.00. Of this amount $258,913.96 was expended, leaving an unexpended balance of $1,843.04.

BUILDINGS.

One of the most notable accomplishments of the year, in pursuance of the policy of this Commission that absolutely sanitary housing of the fire fighters is of supreme importance to the efficiency of any Fire Department, is to be found in the changes at the North Main street fire station, where the abolition of horses and the substitution therefor of motor-driven apparatus made it possible to remodel a large portion of the building, increasing the sleeping quarters of the men, installing new and up-to-date bath facilities, and to bring about other changes that make it a model fire station.

We keenly realize the need of changes along the same lines at the Walnut street fire station, which has now, through the abolition of horse-drawn apparatus, been added to the list of motorized stations. Nineteen men are housed at this station and there is urgent need of increased sleeping quarters and better bath facilities, which may be secured through alterations in the space now occupied by the old stables and forage loft. This change, like that so successfully made at the North Main street station, is recommended by the Chief of the Department and is one of the important matters to be taken up by this Commission during the ensuing year.

APPARATUS.

Principal among the additions to the motor equipment made within the year is the first motor pumping engine to

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be purchased by the city. This engine, which will doubtless be in service before this report is off the press, is manufactured by the Nott Fire Engine Co. of Minneapolis, Minn. It is of the triple combination type, carrying fire hose and a chemical outfit, thus affording an engine and hose wagon combined. It will be stationed at Indian Orchard and it is doubtful if a more practical single piece of apparatus could have been secured for the protection of that rapidly developing portion of the city.

A new ladder truck, now ready for delivery, will be located at the Pine street fire station. This piece, which will greatly add to the efficiency of the department in that important portion of the city, will necessitate the organization of another company of eight men to man it.

In the work of eliminating horse-drawn apparatus from the service much has been accomplished. All the horse-drawn hose wagons have been replaced by motor hose cars and there are now no stations without one or more pieces of motor apparatus. There are in service but six pieces of horse-drawn apparatus, requiring fifteen horses to operate.

The various pieces of apparatus are located as follows:—

MOTOR.

Chestnut street: one motor combination hose and chemical car and one motor auxiliary squad car.

Court street: one chief's car, one motor aerial hook and ladder truck, one motor combination hose and chemical car, one motor runabout car (Supt. Fire Alarm), one motor truck for fire alarm service and one water tower.

Margaret street: one motor combination hose and chemical car and one spare motor car.

North Street: one chief's car and one electric combination hose car. (One spare horse-drawn steam fire engine, without horses.)

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North Main street: one motor hose and chemical car, one motor aerial hook and ladder truck, one trolley transportation car, and two sleighs.

Pine street: one chief's car and one motor combination hose and chemical car.

Plainfield street: one motor combination hose and chemical car.

Walnut street: one chief's car, one motor auxiliary squad car, one tractor-drawn steam fire engine, one motor combination hose and chemical car, and one sleigh.

Motor and Horse.

Armory street: one motor combination hose and chemical car, one horse-drawn steam fire engine, one horse-drawn supply wagon, and one sleigh.

Indian Orchard: one motor pumping engine, one motor combination hose and chemical car, one horse-drawn hook and ladder truck, one supply wagon, one horse-drawn chief's wagon, and one sleigh.

Mill street: one horse-drawn steam fire engine, one horse-drawn hook and ladder truck, one motor combination hose and chemical car, and one supply wagon.

Oakland street: one horse-drawn steam fire engine, one motor combination hose and chemical car, one horse-drawn hook and ladder truck, one supply wagon, and one sleigh.

Winchester square: one motor combination hose and chemical car, one horse-drawn steam fire engine, one motor aerial hook and ladder truck, one horse-drawn supply wagon, and three sleighs.

Stored.

Mill River lane: one chemical engine, one horse-drawn ladder truck, three horse-drawn hose wagons, and seven sleighs.

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PERSONNEL OF FIRE DEPARTMENT.

The personnel of the department has this year been the subject of much attention on the part of this Commission. By ordinance the old offices of chief engineer and first, second, and third assistant engineers have been done away with and in their places have been created the offices of chief, deputy chief, and two district chiefs.

To facilitate the control of the various companies, especially at fires, the entire city has been divided into districts, each under the direct supervision of either the deputy or district chiefs, who are responsible to the chief. One advantage of this arrangement, which is generally followed in the larger cities, is to relieve the chief of much routine business that otherwise, through constant demand upon his time, often proves a serious obstacle to the effective control of the department. It has also the added advantage of stimulating keen interest among the captains, any one of whom is likely to be designated to take charge of a district when a district chief is ill or on a day off. It also places more responsibility upon the lieutenants, who are thus likely to be frequently called upon to succeed their captains in command of the various companies.

These and other changes have been incorporated in a new set of rules to which this Commission has given its approval only after long investigation of the subject and comparison with those in effect in the fire departments of other cities.

There are now one hundred and seventy-seven (177) men in the service, classified as follows: one chief, one deputy chief, two district chiefs, one superintendent of fire alarm, one clerk, twenty-one (21) captains, twenty-three (23) lieutenants, seven engineers, three operators of fire alarm system, two linemen, one hundred and thirteen (113) hose and ladder men, and three call men.

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DRILL SCHOOL.

This important adjunct to the department has been rendered more effective through the introduction of a new series of individual and company drills, the object of which is to acquaint every member with the use of all tools employed in fighting fire. In these tests company members and companies are marked according to a uniform standard and the result has been to greatly improve the esprit de corps.

RESPONDING TO ALARMS.

Last year the department responded to one hundred (100) more alarms than during the year preceding and the total of one thousand and thirty-three (1,033) for 1913 is an increase of two hundred and four (204) over that of 1912.

The problem presented by this steady increase in the number of alarms to which the department must respond, coupled with the increasing traffic in the principal streets of the city, is one to which this Commission has given and is giving much study. By ordinance restricting the use of portions of Court and Water streets the work of the companies at the Headquarters fire station has been materially expedited and the service of the entire department has been improved through the designation of routes over which the different companies may reach the boxes to which they respond.

It is our intention to later submit for your consideration designations of certain points to be known as fire stops, as a means of further increasing the efficiency of the department.

In this matter of prompt response to alarms however it should be borne in mind that it is the insistent demand of this Commission that in so far as is consistent with the actual prevention of loss by fire, the rights of citizens and private property in the highways be at all times duly respected by members of the department. With this end in view a rule

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has been promulgated to prevent needless and reckless speed on the part of apparatus either when going to or returning from a fire. Under this rule the officer in charge of a piece of apparatus meeting with an accident in a public highway is promptly suspended, pending a hearing.

CONCLUSION.

No better means of acquainting the public with the work of this department has ever been presented than that afforded by the recent exhibition in connection with the dedication of the Municipal Group and we take to ourselves a justifiable pride in the showing made there by the Fire Department. The thanks of the Commissioners are hereby extended Chief Daggett, Deputy Chief Kimball, and the latter's associates upon the committee in charge of the department exhibit, for the time and energy devoted to presenting the department work in such intelligent and comprehensive form.

We are indebted to His Honor, the Mayor, and to each and every member of the City Council for the manifest willingness at all times to aid in and facilitate the work of this Commission, and it is gratifying to feel that in the execution of special plans as well as in the routine of the service we have had the hearty co-operation of the Chief, of his associates, and the members of the uniformed force.

EDWARD A. McCLINTOCK,
FRANK H. WESSON,
CHARLES F. BROWN,
OCTAVE A. LaRIVIERE,
ROBERT N. INGERSOLL,

Board of Commissioners of the Fire Department.

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REPORT OF

CHIEF OF THE DEPARTMENT

SPRINGFIELD, MASS., December 27, 1913.

To the Honorable Board of Commissioners of the Fire Department.

GENTLEMEN: In compliance with the provisions of the ordinance governing the Fire Department I have the honor to submit my sixth annual report.

The total number of alarms responded to during the year was one thousand and thirty-three (1,033), an increase of two hundred and four (204) over those of the preceding year. Of this number three hundred and twenty-three (323) were bell alarms, five hundred and thirty-six (536) telephone alarms, and one hundred and sixty-two (162) still alarms, the remainder including ten thermostat signals and two over the A. D. T. service.

The loss sustained upon property involved in the fires of the year was $264,165.72, of which $236,768.74 was covered by insurance, the uninsured loss being $27,396.98. The total valuation of the property where fire losses have resulted was $6,528,439.08 and upon this there was insurance amounting to $5,959,400.92. The total number of buildings inspected was six thousand, one hundred and thirteen (6,113).

The expenditures of the department, extending over a period of thirteen months, amounted to $258,913.96 and of the total appropriation of $260,757.00 there remains an unexpended balance of $1,843.04.

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Details of the expenditures, an inventory of the lands, buildings, and equipment of the department, together with a list of the alarms, fires, and causes of same, losses involved and insurance carried, locations of fire alarm signal boxes, and other information accompany and constitute a portion of this report.

Very truly,

W. H. DAGGETT,

Chief.

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RECEIPTS.

Appropriation	$260,457.00	
Transfer	300.00	
		$260,757.00

EXPENDITURES.

Apparatus		$21,842.30	
Buildings		3,925.97	
Clothing		640.45	
Fire alarm		5,962.45	
Fire tools		847.05	
Forage		4,738.72	
Forest Fires		16.43	
Fuel		6,248.86	
Furniture and bedding		1,231.15	
Harness		23.44	
Highway and grounds		982.35	
Horses, Shoeing	$1,134.73		
Veterinary	375.00		
		1,509.73	
Hose		3,054.35	
Laundry		831.04	
Light		1,174.37	
Miscellaneous		922.38	
Pay roll		200,653.20	
Supplies		3,562.24	
Telephone		747.48	
			258,913.96
Balance unexpended			$1,843.04

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INVENTORY OF THE FIRE DEPARTMENT.

DECEMBER 1, 1913.

	Land.	Buildings.	Equipment.	Total.
Armory street,	$1,200.00	$16,000.00	$10,036.00	$27,236.00
Boston road,		200.00	300.00	500.00
Chestnut street,	10,000.00	14,500.00	12,400.00	36,900.00
Court street,	35,000.00	101,500.00	46,600.00	183,100.00
Hooker street,	3,900.00	30,000.00	18,500.00	52,400.00
Indian Orchard,	1,200.00	16,000.00	11,000.00	28,200.00
Margaret street,	2,000.00	25,500.00	7,850.00	35,350.00
Mill street,	2,000.00	16,500.00	14,500.00	33,000.00
Mill River lane,	300.00	2,000.00	1,300.00	3,600.00
North street,	4,000.00	58,000.00	15,200.00	77,200.00
Oakland street,	2,000.00	11,000.00	13,000.00	26,000.00
Pine street,	2,500.00	35,000.00	8,000.00	45,500.00
Plainfield street,	1,200.00	10,500.00	5,814.00	17,514.00
Walnut street,	3,500.00	17,500.00	21,000.00	42,000.00
Winchester Square,	7,000.00	18,000.00	21,700.00	46,700.00
Fire Alarm service,			116,600.00	116,600.00
	$75,800.00	$372,200.00	$323,800.00	$771,800.00

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DETAILED STATEMENT OF FIRES FOR THE YEAR ENDING NOVEMBER 30, 1913.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
1912												
Dec. 1	1:17 a.m.	Tel.	46 Main St.....	N'dl'ss al'm								Needless alarm.
" 1	2:07 p.m.	Tel.	Riverview St.....	Dump....								Dumping ground.
" 1	4:57 p.m.	Still	Liberty St.....									Bonfire.
" 1	5:00 p.m.	Still	Birnie Ave.....	Grass.....								Grass fire.
" 2	8:02 a.m.	Tel.	198 Tyler St.....									Soot in stovepipe.
" 2	2:32 p.m.	still	43 Walnut St....	Frame....	M. & R. Browdy.	M. & R. Browdy.	Dwelling....	$23.00	$3,000	$25.00	$1,000	Children and matches.
" 2	11:10 p.m.	still	State St.....	Trolly car.								Trolly car.
" 3	1:48 p.m.	Tel.	Kensington Ave..	Grass.....								Grass fire.
" 3	2:51 p.m.	23	34-40 Sanford St..	Concrete..			Garage.....					Gasoline.
" 3	5:06 p.m.	Tel.	Abbe Ave.....	Grass.....								Grass fire.
" 4	11:57 a.m.	31	38 Maple St.....	Brick.....	H. O. Pease Est..	Mrs. M. Hartnett	Dwelling....	128.00	2,500	125.00	1,500	Hot charcoal.
" 4	12:33 p.m.	still	Toll bridge.....									Careless smoking.
" 4	1:48 p.m.	83	156 Florence St..	Frame....	J. B. O'Brien....	J. B. O'Brien....	Dwelling....	12.00	1,400	135.00	500	Children and matches.
" 5	9:11 a.m.	Tel.	116 Rowland St..									Kettle of tar.
" 5	9:46 a.m.	Tel.	101 M'ch's'tts av.	Frame....	E. T. Lanergan..	E. T. Lanergan..	Dwelling.....	343.00	4,500	25.00	1,000	Lime in ash barrel.
" 5	6:30 p.m.	Tel.	512 W'th'gt'n St..	Barrels....		W. S. Robinson..						Hot ashes.
" 5	6:57 p.m.	89	70 Knox St.....	Frame....	M. Crawford....	H. D. Palmer...	Dwelling....	25.00	3,500	5.00	None	Clothing near stove.
" 6	5:58 p.m.	Tel.	B'lm't & S'nr aves	Trolly car.								Trolly car.
" 7	5:51 a.m.	Tel.	123 Carew St....	Brick.....	E. A. Dexter....	E. A. Dexter....	Bakery.....					Heat from oven.
" 7	6:55 a.m.	Tel.	Sumner Terrace..	Grass.....								Grass fire.
" 8	4:02 p.m.	38	42 Gardner St....	Frame....	E. Ottovio.....	F. Rioux.....	Dwelling....	109.00	2,000	100.00	1,000	Defective chimney.
" 8	5:43 p.m.	Tel.	299 Eastern Ave..	Frame....	F. W. Harwood..	E. J. Anger.....	Dwelling....	6.75	1,000	36.90	500	Children and matches.
" 8	6:35 p.m.	Tel.	Abbe Ave.....	Grass.....								Grass fire.
" 9	8:29 a.m.	Tel.	199 Boston Rd...	Chimney..	G. W. Lyman...			15.00	2,000	None		Chimney fire.
" 9	2:01 p.m.	462	76 Washburn St..	Frame....	F. Langove.....	S. Smart.....	Dwelling....	130.00	700	10.00	None	Hot lacquer.
" 9	3:36 p.m.	Tel.	Longhill St.....	Grass.....								Grass fire.
" 9	5:49 p.m.	Tel.	14 W'th'gt'n St...	N'dl'ss al'm								Drying plaster.
" 10	7:55 a.m.	81	135 Orleans St...	Frame....	Mrs.P. Al'x'der..	R. C. Belden....	Dwelling....	44.00	3,500	69.00	1,500	Oil heater.
" 10	2:45 p.m.	Tel.	Biltmore St.....	Frame....	W. H. Dexter...	None.....	Dwelling....	20.00	4,400	None		Drying plaster.
" 10	3:10 p.m.	Tel.	Toll bridge.....									Careless smoking.
" 11	12:15 a.m.	35	Cross St.....	N'dl'ss al'm								Drying plaster.
" 11	3:10 a.m.	453	837 North St....	Brick.....	L. Karp.....		Dw'g & store	25.00	14,000	None		Unknown.
" 11	5:24 a.m.	Tel.	837 North St....	N'dl'ss al'm								Needless alarm.
" 11	6:41 a.m.	Tel.	Hubbard Ave....	Rubbish...								Rubbish.
" 11	11:05 a.m.	Tel.	151 N Main St...									Overheated stovepipe.
" 11	3:53 p.m.	36	300 Water St....	F'me & b'k	E. & P. Barabassi	J. Sica.....	Dw'g & store.	Slight				Chimney fire.
" 11	7:27 p.m.	36	53 Union St.....	N'dl'ss al'm								Needless alarm.
" 12	9:00 a.m.	253	306 Bridge St....	Brick.....	F. L. Dunlap....		Dwelling....					Defective chimney.
" 12	10:59 a.m.	still	Hyde Ave.....	Grass.....								Grass fire.
" 12	4:45 p.m.	Tel.	44 Talcott Ave...	Frame....			Hencoop....					Children and matches.
" 12	5:27 p.m.	38	369 Water St....	B'k & f'me			Dwelling....					Needless alarm.
" 12	7:47 p.m.	Tel.	Ingersoll Grove...	Leaves....								Leaves.
" 13	12:42 a.m.	Tel.	Worthington St..	Esc. steam.								Needless alarm.
" 13	8:15 a.m.	Tel.	45 Hampden St..	Brick.....	H. L. Handy....		Smokehouse..					Needless alarm.
" 13	11:01 a.m.	8	51 Taylor St....	Brick.....	John Swain.....	B. S. Elev. Co...	Factory.....	104.00	20,500	53.10	9,000	Careless with matches.

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DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
Dec. 13	2:40 p.m.	still	59 Margaret St..	Frame....			Out-building.					Hot ashes.
" 13	4:45 p.m.	Tel.	South St.....	Grass.....								Grass fire.
" 13	5:17 p.m.	Tel.	Main opp. Grove.	Grass.....								Grass fire.
" 13	6:17 p.m.	981	74 Baxter Ave...	Frame....	Moses Ehrlich...	V. Pasquali.....	Dwelling....	$108.00	$1,020	$75.00	None	Defective chimney.
" 13	6:32 p.m.	Tel.	Abbe Ave.....	Grass.....								Grass fire.
" 13	9:02 p.m.	still	South End.....	Dump.....								Dumping grounds.
" 14	9:13 p.m.	still	South End.....	Dump.....								Dumping grounds.
" 14	4:10 p.m.	76 I O	41 Pasco St., I. O.	Frame....	A. L. Lanckton..	A. L. Lanckton..	Dwelling....	45.00	4,500	39.00	$1,500	Unknown.
" 14	4:48 p.m.	Tel.	Hickory St.....	Brush.....								Brush.
" 15	1:48 a.m.	Tel.	359 Chestnut St..	Brick.....	B. Radding.....	B. Radding.....	Store.....	None		20.00	2,000	Unknown.
" 15	3:35 a.m.	Tel.	84 Sargeant St...	Frame....	S. Levison.....	Mrs. E. L. B't'lle	Dwelling....	Slight		10.00	None	Careless smoking.
" 15	4:03 p.m.	Tel.	King St. Exten...	Brush.....								Brush.
" 15	4:50 p.m.	t'l. I O	Indian Orchard...	Grass.....								Grass fire.
" 15	4:51 p.m.	Tel.	Allen St.....	B'sh & gr'ss								Brush and grass.
" 15	8:25 p.m.	still	132 Bemis Place..	Frame....	J. H. Williams...	J. Crowley.....	Dwelling....	Slight		75.00	500	Careless smoking.
" 15	8:35 p.m.	561										Gas explosion.
" 15	11:35 p.m.	Tel.	Armory St.....	Grass.....								Grass fire.
" 17	7:47 a.m.	Tel.	287 Walnut St...	Frame....	M. Mullen.....		Dwelling....	8.71	4,000	None		Defective fireplace.
" 17	9:10 a.m.	Tel.	24 Dartmouth St.									Defective fireplace.
" 17	1:32 p.m.	Tel.	King St. Exten...	Brush.....								Brush fire.
" 17	2:45 p.m.	Tel.	Allen St.....	Brush.....								Brush fire.
" 19	8:05 a.m.	still	175 William St...									Broken gas fixture.
" 19	7:03 p.m.	493	Wason Ave.....	F'me & b'k	Wason Mfg. Co..	Wason Mfg. Co..	Factory.....					Unknown.
" 19	7:10 p.m.	493	Wason Ave.....	F'me & b'k	Wason Mfg. Co..	Wason Mfg. Co..	Factory.....					Second alarm.
" 20	7:58 a.m.	Tel.	Brooklyn Ave....	Chimney..								Chimney fire.
" 20	12:15 p.m.	t'l. I O	Indian Orchard...	Dump.....								Dumping grounds.
" 20	4:12 p.m.	still	Abbe Ave.....	Grass.....								Grass fire.
" 20	9:14 p.m.	791	Liberty & H'yw'd	Auto.....								Automobile.
" 20	10:38 p.m.	Tel.	855 Belmont Ave.	Frame....			Dwelling....					Drying plaster.
" 21	10:40 a.m.	Tel.	R. 328 Union St..	Auto.....	Dr. C. H. Porter.					165.00	600	Automobile.
" 21	2:04 a.m.	still	169 W'th'gt'n St.	Chimney..								Chimney fire.
" 21	2:45 p.m.	Tel.	Main&Worth.Sts.	Brick.....	Worthy Hotel Co		Hotel.....					Pan of grease.
" 22	1:09 a.m.	37	310 Water St....	Brick.....	F. Curto.....	J. Francone.....	Store.....	75.00	3,000	90.00	400	Unknown.
" 22	3:15 a.m.	A D T	Wason Ave.....	F'me & b'k	Wason Mfg. Co..	Wason Mfg. Co..	Factory.....					Rekindling of former fire
" 23	1:45 p.m.	t'l. I O	Indian Orchard...	Brush.....								Brush fire.
" 23	5:34 p.m.	still	28 Charter Ave...	Frame....	Ingersoll.....	V. Dupont.....	Dwelling....					Boys and papers.
" 24	5:39 a.m.	61	38 Mill St.....	Frame....	A. C. Gowdy....	R. W. Robinson.	Dwelling....	38.25	3,000	26.77	500	Careless with matches.
" 24	2:02 p.m.	83	300 Hancock St..	Frame....	C. W. Allen.....	{ R. C. Eaton... { F. A. Hendricks	Dwelling....	190.00	1,000	Slight	None	Unknown.
" 24	5:52 p.m.	36	286 Water St....	Frame....	C. C. Abbe.....		Dwelling....					Unknown.
" 25	3:34 p.m.	Tel.	Fresno St.....	Frame....	M.C.Helliwell..	J. W. Lee.....	Dwelling....	23.85	2,500	239.90	400	Unknown.
" 25	4:30 p.m.	still	RR tr'cks C'rt St.	Freight car	N. Y. N. H. & H.							Accident with lamp.
" 26	7:15 a.m.	still	Ft. Di'k's'n St. Hill	Trolly car.								Trolly car.
" 26	2:45 p.m.	t'l. I O	88 Hampden, I. O.	Frame....	C. H. Ludden...	W. M. Stevenson	Barn.....	75 00	500	None		Oil stove and clothing.
" 26	8:29 p.m.	Tel.	162 N. Main St..	Chimney..								Chimney fire.
" 27	7:49 a.m.	Tel.	Cr. Maple & High	Stove.....	S. Cong. Parish..	S. Cong. Parish..	Church.....					Needless alarm.

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DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
Dec. 27	11:13 a.m.	Tel.	22 Thomas St.	Frame	G. R. Andrew	G. R. Andrew	Dwelling	$3.75	$3,500	$55.00	$500	Children and matches.
" 28	5:40 p.m.	36	8 Union St	Frame	A. Curto	A. Curto	Dwelling					Unknown.
" 28	6:39 p.m.	Tel.	8 Union St	Frame	A. Curto	A. Curto M. Bruno	Dwelling	235.00	5,000	12.00	300	Rekindling of former fire.
" 31	8:23 a.m.	Tel.	471 W'th'gt'n St.	Frame	W. Broadhurst	O. D. Adams	Factory	10.34	10,000	None		Defective heater.
" 31	12:06 p.m.	Tel.	321 Chestnut St.	Frame			Dwelling					Chimney fire.
" 31	1:57 p.m.	Tel.	365 Chestnut St.	Brick		Fallon Bros	Dw'g & stores					Unknown.
1913												
Jan. 1	10:27 a.m.	Tel.	34 M'ntm'r'nci St.	Frame								Defective chimney.
" 1	5:00 p.m.	473	53 Portland St	Frame	Mrs. E. Leonard	C. Harrington	Dwelling	77.00	3,700	106.80	1,000	Oil heater.
" 1	9:02 p.m.	Tel.	131 Tenth St	Brick	M. Lebowitz	L. Kasofsky	Dwelling	20.00	2,970	56.00	600	Careless with matches.
" 2	6:15 p.m.	still	302 Maple St	Brick	Walter Wesson	Walter Wesson	Dwelling					Careless with matches.
" 2	8:00 p.m.	Tel.	West St	Dump								Dumping grounds.
" 2	10:18 p.m.	24	27-29 Vernon St 27-29 Vernon St	Brick Brick	Forbes & Wallace Forbes & Wallace	P. P. Whitkop Forbes & Wallace	Hotel Store	1,969.00 2,214.81	20,000 650,000	1,000.00	5,000	Unknown. Exposure loss.
" 3	5:35 p.m.	43 I O	323 Main St., I. O	Frame			Dwelling					Overheated stovepipe.
" 4	10:56 a.m.	Tel.	St. James Ave	Brush								Brush fire.
" 4	3:55 p.m.	Tel.	1336 State St	Frame	Luke Hart							Chimney fire.
" 4	5:10 p.m.	still	20 Stafford St	Frame	P. Riley							Chimney fire.
" 5	12:36 p.m.	Tel.	306 Bridge St	Frame								Chimney fire.
" 9	5:56 p.m.	Tel.	West St	Dump								Dumping grounds.
" 9	7:38 p.m.	13	209 State St	Frame	C.&H.Chapin Est	C.&H.Chapin Est	Dwelling	148.60	9,000	564.30	3,500	Unknown.
" 9	8:20 p.m.	Tel.	Foot Emery St.	Brick	B. & M. R.R. Co.	B. & M. R.R. Co.	Eng. house					Careless with matches.
" 11	4:58 p.m.	still	State & Walnut	Trolly car								Trolly car.
" 12	8:45 a.m.	34	39 Loring St	Frame	S. Sherman	W. Dowd	Dwelling	15.00	4,000	15.00	None	Unknown.
" 12	7:18 p.m.	Tel.	14 Warren Ave	Frame								Chimney fire.
" 12	8:16 p.m.	still	114 Tenth St	Frame								Back draft.
" 12	8:28 p.m.	751		False								False.
" 13	6:49 p.m.	Tel.	732½ Main St	Brick			Apartment					Gas leak.
" 14	9:37 p.m.	251	448 W'th'gt'n St.	Brick	Don. Dav. & Br.	E. Kitsopanidis	Store	75.00	7,000	75.00	2,200	Unknown.
" 14	10:05 p.m.	451	152 Ferry St	Ped. wagon	G. Papaelopoulos					5.00	None	Lantern warming fruit.
" 15	11:05 a.m.	Tel.	Berkshire St	Stone	M. B. Burch	M. B. Burch	Dwelling	80.00	3,200	118.50	1,000	Christmas tree.
" 15	11:56 a.m.	43	27 Church St	Brick	A. Freedman	A. Freedman	Garage					Boiler explosion.
" 15	10:14 p.m.	471	42 Bancroft St	Frame	M. Conlon	J. J. Sullivan	Barn	25.00	1,600	None		Unknown.
" 15	10:20 p.m.	25	151 Dwight St	Brick	B. M. Maroney	M. D. Gibbons	Factory	7.85	3,000	None		Hot ashes.
" 16	7:54 a.m.	614	21-23 Warner Pl.	Frame	DeM'tigny & Son		Dwelling					Drying plaster.
" 16	10:35 a.m.	452	67 Franklin St	Brick	I. Schwartz	T. Ruddeforth	Apartment	50.00	10,000	15.00	500	Clothing over stove.
" 16	8:13 p.m.	Tel.	145 Ferry St	Brick	S.& H.Barnett	H. Glick	Dwelling	15.00	9,500	None		Rats.
" 16	10:18 p.m.	Tel.	Sumner Ave	Auto	J. J. Keleher					900.00	1,500	Gasoline.
" 17	10:54 a.m.	453	833 North St	Brick	A. Karp	S. Smith	Store	25.00	14,000	200.00	800	Careless with gasoline.
" 17	5:00 p.m.	Tel.	Bliss St	N'dl'ssal'm								Needless alarm.
" 17	5:30 p.m.	35 I O	40 Hampden, I O.	Brick	I. O. Co		Dwelling					Careless with matches.
" 18	9:32 a.m.	Tel.	145 State St	Frame								Chimney fire.
" 18	1:20 p.m.	Tel.	Central St	Trolly car								Trolly car.
" 18	8:02 p.m.	682		False								False.

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DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
Jan. 19	1:02 a.m.	41	14 Liberty St.	Brick	C. H. Churchill	M. P. Casey	Barn	$506.00	$1,500	$303.91	$1,500	Careless smoking.
" 19	2:52 p.m.	742	Off Sherman Rd.	Grass								Grass fire.
" 19	4:49 p.m.	Tel.	240 Walnut St.	Brick	B. S. Realty Co.	J. J. Welch	Store	30.00	10,000	None		Gas jet and decorations.
" 20	8:22 a.m.	Tel.	82 Green Lane	Frame	F. A. Bassette		Dwelling					Defective fireplace.
" 20	3:45 p.m.	Tel.	Franklin St.	Dump								Dumping grounds.
" 20	5:48 p.m.	Tel.	Locust St.	Trolly car								Trolly car.
" 21	7:43 a.m.	23	431 Main St.	N'dl'ss al'm								Back draft.
" 21	7:59 p.m.	91	College Ave.	N'dl'ss al'm								Drying plaster.
" 22	8:53 a.m.	Tel.	54 Byers St.	Auto.								Gasoline.
" 23	4:25 p.m.	45		False								False.
" 23	11:54 p.m.	452	678 North St.	Brick	J. Aronson	H. Cohen I. Hecht	Dw'g & stores	90.00	15,000	105.50 25.00	700 600	Unknown.
" 24	1:20 a.m.	A D T	54 Fort St.	False	S. Brew. Co.							False.
" 24	6:24 p.m.	Tel.	15 Cypress St.	Auto.	D. I. Dodge					135.00	800	Gasoline.
" 26	8:46 a.m.	72		False								False.
" 27	1:48 a.m.	39	91-93 Norwood St	Frame	F.& T.DiSandi	F. C. Busi	Barn	300.00	400	170.00	300	Unknown.
			91-93 Norwood St	Frame	F.& T.DiSandi		Dwelling	50.00	2,000			Exposure loss.
" 27	4:13 p.m.	26	254 Bridge St.	Brick	Trin. Real. Trust.	The Mohican Co.	Store	147.00	17,100	Slight		Careless workman.
" 27	7:25 p.m.	t'l. I O	371 Main St., I. O.	Frame								Chimney fire.
" 27	7:40 p.m.	still	58 Dymond St.	Frame			Dwelling					Accident with lamp.
" 28	4:37 p.m.	Tel.	Austin St.	Grass								Grass fire.
" 28	6:44 p.m.	2	Hampden St.	Rubbish								Rubbish.
" 28	8:24 p.m.	42	20 Congress St.	Brick	E. Freedman	S. Hersh	Dwelling	75.00	20,000	50.00	1,000	Unknown.
" 29	5:11 p.m.	Tel.	575 Liberty St.	False								False.
" 30	8:30 a.m.	27 I O	Indian Orchard	Frame								Chimney fire.
" 30	12:55 p.m.	t'l. I O	Indian Orchard	Frame								Chimney fire.
" 30	5:32 p.m.	36	25 Mechanic St.	Frame	Mary Shea	Mary Shea	Dwelling	22.00	1,000	53.00	500	Careless with matches.
" 31	4:41 p.m.	74	15 Allendale St.	Frame	D. Blinsky	D. Blinsky	Dwelling	10.00	4,000	8.00	1,000	Lace curtain and candle.
" 31	6:56 p.m.	751	110 Bond St.	Brick	A. Janeshefski	B. Krevalin	Dwelling	140.00	10,000	84.00	800	Unknown.
Feb. 1	10:22 a.m.	Tel.	Crescent Hill	Frame	J. W. Stebbins							Chimney fire.
" 1	12:20 p.m.	still	Chestnut St.	Trolly car								Trolly car.
" 1	1:30 p.m.	Tel.	41 Chestnut St.	Frame								Chimney fire.
" 1	5:08 p.m.	96	144 Tyler St.	Frame	T. J. Foley	M. N. Martin	Dwelling	10.00	2,000	None		Spark from stove.
" 1	5:46 p.m.	Tel.	Hampden Park	Grass								Grass fire.
" 2	3:10 p.m.	still	Plainfield St.	Grass								Grass fire.
" 3	12:04 a.m.	451	659 North St.	Brick	M. Askinass	S. Cohen S. Smith S. Sniver	Store	450.00	7,000	200.00 30.00 10.00	1,500 800 400	Unknown.
" 3	7:57 a.m.	Tel.	Hickory St.	Steel chips.								Steel chips.
" 3	10:04 a.m.	36 I O	162 Main St., I.O.	Brick	O. A. LaRiviere	W. Shova	Store	30.00	20,000	None		Careless smoking.
" 4	11:54 a.m.	41	53 Ferry St.	Brick	J. Shibley	M. Marwood	Store	75.00	3,150	61.35	400	Heat from stove.
" 5	3:28 p.m.	271	94 Bridge St.	Brick	Phelps Real. A.	F. Bareille	Dwelling	None		334.50	14,500	Electric wires.
" 5	4:50 p.m.	27 I O	269 Main St., I. O.	Frame	C. S. Parker	C. S. Parker	Dwelling	185.00	5,000	316.00	None	Unknown.
" 6	9:34 a.m.	Tel.	153 Main St.	Frame								Chimney fire.
" 6	1:58 p.m.	Tel.	164 College St.	Frame	E. Bosquet	T. Naylor	Dwelling	37.73	6,500	25.00	500	Overheated furnace.

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DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
Feb. 7	3:09 a.m.	41	193 Main St.....	Brick.....	J. Daley.....	Welch & Collins.	Store.....	$160.00	$9,000	None		Overheated furnace.
" 7	1:20 p.m.	931	1400 State St....	Brick.....	City of Spfd....	City Almshouse..	Almshouse...	150.00	None	None		Unknown.
" 7	1:33 p.m.	Tel.	23 Sumner Ter...	Frame.....	W. A. Hatfield...		Dwelling...					Back smoke.
" 8	9:49 a.m.	49	Wason Ave.....	Frame.....	B. Mach. Tool Co	B. Mach. Tool Co	Factory....	576.86	305,000 Blanket			Overheated furnace.
" 8	7:22 p.m.	Tel.	State & Dwight...	Trolly car.								Trolly car.
" 8	8:42 p.m.	t'l.IO	r 22 R'g's av.,I.O.	Frame.....	A. Flebotte.....	A. Flebotte.....	Workshop...	40.00	100	$81.88	$100	Unknown.
" 9	1:00 a.m.	Tel.	Shattuck St.....	Dump.....								Dumping grounds.
" 9	1:11 a.m.	271	86-88 Water St...	Brick.....	J. Swaine.....	N. D. Pazzo.....	Store.....	250.00	5,000	450.00	1,000	Supposed incendiary.
" 9	9:47 a.m.	still	19-21 Windsor St.	Frame.....			Dwelling...					Drying plaster.
" 10	5:26 p.m.	Ther.	203 W'th'gt'n St.	Rubbish...								Rubbish.
" 10	6:17 p.m.	93	Shattuck St.....	Dump.....								Dumping grounds.
" 12	8:20 p.m.	still	Indian Orchard...	Frame.....								Chimney fire.
" 13	7:17 a.m.	573	State & Stebbins..	Brick.....	1st Hi. Bap. Soc.	1st Hi. Bap. Soc.	Church.....	18,385.00	60,000	7,041.45	9,750	Overheated furnace.
" 13	7:31 a.m.	573	State & Stebbins									Second alarm.
" 13	10:00 a.m.	still	Geraldine Court..	N'dl'ss al'm								Needless alarm.
" 14	5:58 a.m.	98	Baxter Ave.....	Frame.....	Rice-V'l'ntine Co	Rice-V'l'ntine Co	Office.....					Thawing water pipe.
" 14	3:10 p.m.	still	43 Westernview..	Frame.....	R. H. Blinn.....		Dwelling..					Back smoke.
" 14	9:12 p.m.	still	82 Essex St.....	Frame.....	H. Goldstein....	S. Goldberg.....	Dwelling..	None		50.00	500	Broken lamp.
" 15	6:13 a.m.	795	727 Carew St....	Frame.....			Dwelling...					Drying plaster.
" 15	9:15 a.m.	Tel.	27 Carew St.....	Frame.....	S. Sherman.....	J. Leiverman....	Dw'g & store	Slight		None		Defective flue.
" 15	10:43 a.m.	28	119 Water St....	Brick.....	A. W. Lincoln...	I. Zimmerman...	Dwelling...	None		5.00	500	Child and match.
" 15	6:13 p.m.	74		False.....								False alarm.
" 15	7:06 p.m.	Tel.	West St.....	Dump.....								Dumping ground.
" 16	4:00 p.m.	74	49 Prospect St...	Frame.....	S. Askinass.....	S. Askinass.....	Dwelling...	350.00	5,000	600.00	1,500	Unknown.
" 16	4:48 p.m.	Tel.	356 Main St.....	Brick.....	L. W. Besse.....		Dwelling...					Rubbish in chute.
" 16	5:37 p.m.	Tel.	Massasoit St.....	Frame.....			Dwelling...					Needless alarm.
" 16	8:46 p.m.	Tel.	171 College St....	Frame.....	S. Carlson.....	F. L. Livingston.	Dwelling...	75.00	6,500	125.00	500	Unknown.
" 17	11:04 a.m.	961	148 Hancock St..	Frame.....	Ellen McCarthy.	Ellen McCarthy.	Dwelling....	32.50	2,600	None		Sparks from chimney.
" 18	10:32 a.m.	Tel.	Camp Grounds...	Frame.....	A. W. Phelps....	A. W. Phelps....	Dwelling....	60.00	None	None		Defective flue.
" 18	11:03 a.m.	Tel.	113 Patton St....	Frame.....			Dwelling...					Oil stove.
" 18	3:00 p.m.	612	South St.....	Brick.....	F. J. Richards...	F. J. Richards...	Factory....	None		225.00	33,000 Blanket	Spark from picker.
" 18	5:43 p.m.	still	35 Fairbanks Pl..	Frame.....								Chimney fire.
" 18	9:36 p.m.	52		False.....								False alarm.
" 19	3:52 p.m.	42	25-27 Emery St..	Brick.....	J. Schaffer.....							Explosion of heater.
" 19	9:34 p.m.	342	17 York St.....	Frame.....								Chimney fire.
" 20	11:03 a.m.	Tel.	Main & Worth. St	Brick.....	F. L. Worthy....	Worthy Hotel...	Hotel.....					Grease in ventilat'g flue.
" 20	2:20 p.m.	Ther.	Mill St.....	Brick.....	S. Waste Co....	S. Waste Co....	Mill.....					Defective thermostat.
" 20	9:50 p.m.	25	17 New St.....	Frame.....	M. Kneeland....		Dwelling....					Unknown.
" 21	8:10 p.m.	Tel.	103 Lowell St....	Frame.....			Dwelling...					Chimney fire.
" 21	11:06 p.m.	Tel.	33 Madison Ave..	Auto.....	J.J.McGillicuddy			Slight				Prest-O-Lite tank.
" 22	7:28 a.m.	78	126 Greenwood St	Brick.....	B. Baver.....	D. P. Shea.....	Dwelling...	30.00	7,000	212.00	1,000	Careless with match.
" 22	11:30 a.m.	still	186 Chestnut St..	Frame.....	J. Tuleja.....	C. T. Melvin....	Store.....					Gasoline.
" 22	3:22 p.m.	Tel.	41 Alden St.....	Frame.....	M. Sullivan.....		Playhouse..	Slight				Children and matches.
" 23	6:30 a.m.	t'l.IO	789 B'kshire av., IO	Frame.....	M. Griffin.....	M. Griffin.....	Dwelling....	77.00	3,000	None		Defective chimney.

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DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
Feb. 23	3:10 p.m.	27 I O	27 Water St., I. O.	Frame....	Ind. Orchd. Co..		Dwelling....					Chimney fire.
" 23	7:29 p.m.	Tel.	34 Linden St.....	Frame....	Sacred Heart Soc.	M. J. Leonard...						Chimney fire.
" 23	10:50 p.m.	41	180-196 Main St..	Frame....	C. V. Ryan.....	P. A. Crowley.	Dw'g & store	$800.00	$12,000	$2,038.69	$4,000	Unknown.
						S. H. Aronson.				150.00	2,250	
						S. Frangil.....				75.00	300	
						Mrs. M. Quinto				40.00	500	
" 24	1:34 p.m.	Tel.	38 Franklin St...	Frame....	LeRoy Nichols..		Dwelling....	Slight		None		Chimney fire.
" 24	8:36 p.m.	Tel.	18 Waverly St...	Frame....			Dwelling....					Defective gas fixture.
" 26	6:01 a.m.	Tel.	80 Willow St.....	Frame....			Dwelling....					Back smoke.
" 26	8:56 a.m.	Ther.	State St.....	Frame....	Hamp. Lum. Co.	Hamp. Lum. Co.	Factory.....	Slight		Slight		Friction.
" 26	8:59 a.m.	Tel.	154 Union St....	Brick.....			Dwelling....					Children and matches.
" 26	9:13 a.m.	Tel.	53 Hall St.....	Frame....	H. C. Townsend.	F. P. Blanchard..	Dwelling....	35.00	3,500	45.00	700	Unknown.
" 26	10:07 a.m.	452	81 Congress St...	Frame....			Dwelling....					Unknown.
" 26	10:20 a.m.	Tel.	466 Sumner Ave..	Frame....								Chimney fire.
" 26	12:51 p.m.	451	614 North St.....	Rubbish...								Rubbish.
" 26	2:00 p.m.	Tel.	Indian Orchard...	Brush.....								Brush fire.
" 26	3:05 p.m.	still	Rowland St.....	Dump....								Dumping grounds.
" 26	6:00 p.m.	Tel.	Indian Orchard...	Brush.....								Brush fire.
" 27	6:53 a.m.	Tel.	32 Liberty St....	Brick.....	N.E.Tel.&Tel.Co	N.E.Tel.&Tel.Co	Storehouse...					Gasoline.
" 28	11:22 a.m.	still	99 Westford Ave..	Frame....	H. C. Heiden....		Dwelling....					Hot ashes.
" 28	2:08 p.m.	12	4 Ridgewood Ter.	Frame....	L. E. Tifft.....	L. E. Tifft.....	Dwelling....	None		10.00	1,000	Electric flatiron.
" 28	2:50 p.m.	Ther.	Mill St.....	Brick.....	S. Waste Co....	S. Waste Co....	Factory.....					Defective thermostat.
Mar. 1	1:14 a.m.	Tel.	240 W'th'gt'n St.	Brick.....	D. Burbank, 2d..	G. A. Othote....	Store.....	795.00	5,000	928.53	1,800	Unknown.
" 1	5:58 a.m.	Tel.	240 W'th'gt'n St.	Brick.....	D. Burbank, 2d..	G. A. Othote....	Store.....					Rekindling of former fire.
" 1	10:20 a.m.	76	166 Carew St....	Brick.....	E. G. Leopoulos.	T. Drynan.....	Dwelling....	25.35	4,600	106.00	1,000	Unknown.
" 2	1:36 p.m.	Tel.	Hickory St.....	Steel chips.								Steel chips.
" 2	9:49 p.m.	Tel	776 State St.....	Frame....								Chimney fire.
" 3	9:35 a.m.	still	42 Bond St.....	Frame....								Chimney fire.
" 3	8:58 p.m.	21	35-37 St'kb'ge St.	Brick.....	M. D. Goetting..	F. D. Johnson...	Dw'g & store					Unknown.
" 5	11:36 a.m.	471	138 N. Main St..	Frame....	L. Meyers.....	C. J. Lackett....	Dwelling....	165.00	3,600	431.00	1,000	Child and matches.
" 5	3:28 p.m.	271	94 Bridge St...	Brick.....	Phelps Real. Asso	F. Bareille.....	Store.....	None		334.50	14,500	Electric wires.
			Bridge St.....	Brick.....		Max Gloth.....	Store.....			40.00	2,000	Exposure loss.
" 5	11:43 p.m.	Tel.	Toll bridge.....									Careless smoking.
" 6	7:41 a.m.	Tel.	365 W'th'gt'n St.	Frame....	R. T. Smith.....	C. Waks.....	Dw'g & shop	None		145.00	800	Careless with gasoline.
" 6	11:35 a.m.	Tel.	Plumtree Road...	Bonfire....								Bonfire.
" 6	7:58 p.m.	Tel.	Leete St.....	Frame....			Dwelling....					Needless alarm.
" 7	6:55 a.m.	Tel.	S. Main St.....	Frame....	Potter Knit Co...		Dwelling....					Clothing near stove.
" 8	9:55 a.m.	Tel.	263 Sharon St....	Frame....	Jennie Faiman...	Jennie Faiman...	Dwelling....	118.00	1,100	None		Thawing water pipe.
" 8	7:29 p.m.	97	209 Pendleton av.	Frame....	Mrs. E. Donovan	Mrs. E. Donovan	Barn.....	35.00	500	15.00	None	Accident with lantern.
" 8	8:22 p.m.	Tel.	Wolcott St.....	Dump....								Dumping grounds.
" 8	9:30 p.m.	Tel.	Wolcott St.....	Dump....								Dumping grounds.
" 9	1:05 a.m.	43 I O	South St., I. O...	Frame....	L. Blaine.....		Chicken coop	25.00	None	None		Hot ashes.
" 10	1:48 a.m.	795	739 Liberty St...	Frame....	J. Melaney.....	L. C. McNeil....	Barn.....	200.00	None	75.00	200	Unknown.
" 11	6:48 p.m.	Tel.	4 Birnie Ave.....	Brick.....		With'bee Ig. Co..	Factory.....					Needless alarm.
" 11	7:49 p.m.	Tel.	Albemarle Ave...	Frame....			Dwelling....					Needless alarm.

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DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
Mar. 14	7:20 p.m.	still	Toll bridge									Careless smoking.
" 15	1:16 p.m.	42	49 Franklin St	Brick	M. River	H. May	Dwelling	$60.00	$6,000	$40.00	None	Unknown.
" 15	5:48 p.m.	Tel.	338-344 Bridge St.	Frame		Mrs. M.F. Welsh	Hotel					Chimney fire.
" 16	8:58 a.m.	Tel.	Pratt St	Frame			Dwelling					Lime.
" 16	10:37 p.m.	still	734 W'th'gt'n St.	Frame	M. & L. Para	D. Shapiro	Dw'g & store	99 00	2,800	336.50	$1,500	Oil stove.
" 17	7:15 p.m.	Tel.	278 W'th'gt'n St.	Brick		John Papas	Store	12.00	None	None		Elec. light and awning.
" 18	1:14 p.m.	Tel.	Monmouth St	Grass								Grass fire.
" 18	4:35 p.m.	Tel.	Hickory St	Grass								Grass fire.
" 19	1:07 p.m.	Tel.	N. Main St	Grass	Atwater Est.							Grass fire.
" 19	2:10 p.m.	Tel.	Main & Union Sts.	Auto.								Gasoline.
" 19	6:35 p.m.	Tel.	E. Springfield	Grass								Grass fire.
" 20	7:12 p.m.	Tel.	Foster St	Dump								Dumping grounds.
" 20	4:35 p.m.	76	131 Butler St	Frame								Chimney fire.
" 20	5:25 p.m.	still	State St	Trolly car								Trolly car.
" 22	1:20 p.m.	Tel.	Cortland St	Brush								Brush fire.
" 22	4:33 p.m.	Tel.	State St	Marble		S. Pub. Library	Library					False.
" 22	5:02 p.m.	Tel.	78 Randolph St	Frame								Chimney fire.
" 23	12:20 p.m.	Tel.	162 W'tm'ster St.	Frame	G. O. Sawtell	G. O. Sawtell	Dwelling	39.02	4,500	295.00	3,500	Careless with match.
" 23	4:10 p.m.	Tel.	Hampden Park	Grass								Grass fire.
" 23	4:45 p.m.	Tel.	Carew St	Grass								Grass fire.
" 24	2:10 p.m.	Tel.	Indian Orchard	Grass								Grass fire.
" 25	7:45 p.m.	76	7 Butler St	Frame	J. Acey	J. Acey	Dwelling	Slight		Slight		Overturned lamp.
" 29	12:30 a.m.	Tel.	419 Sumner Ave	Frame			Dwelling					Back smoke.
" 29	12:00 m.	631	Forest Park	Grass								Grass fire.
" 29	1:31 p.m.	Tel.	Imperial Park	Brush								Brush fire.
" 29	4:25 p.m.	42	34 Greenwood St.	Frame	Freda Hechler	Hyman Hechler	Barn	28.85	100	Slight	None	Children and matches.
" 29	4:59 p.m.	Tel.	51 W'stm'ter St.	Auto.	G.T. Alexander			5.00	None	None		Gasoline.
" 29	6:45 p.m.	271	Toll bridge									Careless smoking.
" 29	11:05 p.m.	41	38 Ferry St	Brick	J. Steinberg	Joseph Zike	Store	30.00	30,000	75.00	700	Rubbish near stove.
" 30	3:21 p.m.	Tel.	71 Eastern Ave	Frame								Chimney fire.
Apr. 1	10:10 a.m.	Tel.	Dwight & Hillman	Auto.	W. H. Sargeant							Gasoline.
" 2	4:13 p.m.	Tel.	South End dump	Frame	City of Spfd	City of Spfd	Barn	200.00	None	None		Unknown.
" 2	4:52 p.m.	25	35 New St	Frame	Neylon Bros	T. Cossini	Dwelling	140.00	2,000	10.66	400	Sparks from chimney.
" 2	6:35 p.m.	Tel.	Indian Orchard	Brush								Brush fire.
" 2	7:03 p.m.	Tel.	12 Wilbraham Av.	Frame								Chimney fire.
" 2	7:07 p.m.	Tel.	Toll bridge									Careless smoking.
" 3	8:50 a.m.	Tel.	23 Grosvenor St.	Frame	N. Cohen	N. Cohen	Dwelling	25.00	3,000	75.00	500	Children and matches.
" 3	1:02 p.m.	Ther.	983 Main St	Brick		Bemis & Call	Factory					Defective thermostat.
" 3	12:57 p.m.	41	56 Sharon St	Frame	A. Freedman		Dwelling					Smoke from stove.
" 3	9:08 p.m.	43	Bond St	Frame	Spfd. St. Ry. Co.	Spfd. St. Ry. Co.	Trolly Ex. car	343.95	4,000 Blanket	Slight		Heater in car.
" 4	7:10 p.m.	Tel.	Allen St	Brush								Brush fire.
" 4	10:50 p.m.	Tel.	37 Thomas St	Frame	Dorenbaum	Belle Cross	Dwelling	25.00	8,000	27.00	500	Drunkenness.
" 4	11:39 p.m.	97	Eastern Ave	Frame	Holy Name Soc.	Holy Name Soc.	Church	1,675.00	39,810	100.00	None	Unknown.
" 4	5:42 p.m.	Tel.	Norfolk St	Brush								Brush fire.

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DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
Apr. 5	9:32 p.m.	Tel.	Main St.	N'dl'ss al'm								Needless alarm.
" 6	1:25 p.m.	Tel.	Off Allen St.	Brush								Brush fire.
" 6	2:35 p.m.	Tel.	West St.	Dump								Dumping grounds.
" 6	7:17 p.m.	713	40 Van Ness Ave.	Frame	G. J. Gero	G. J. Gero	Dwelling	$1,108.00	$2,000	$400.00	None	Oil lamp.
" 6	8:25 p.m.	32	156 Central St.	N'dl'ss al'm								Needless alarm.
" 7	11:30 a.m.	still	Locust & Mill Sts	Trolly car								Trolly car.
" 7	11:30 a.m.	still	Indian Orchard	N'dl'ss al'm								Needless alarm.
" 8	9:06 a.m.	68	272 Orange St.	Frame	H. Grandstein	Geo. Pedlow	Dwelling					Careless with charcoal.
" 8	1:40 p.m.	still	515 Plainfield St.	Grass								Grass fire.
" 8	2:07 p.m.	971	666 Union St.	Frame	S. R. Carlisle	A. LaMountain	Dwelling	120.00	1,200	10.00	None	Defective chimney.
" 8	3:35 p.m.	Tel.	12 Willow St.	Brick	A. F. Leonard	H.W.G't'rm'nCo.	Factory					Careless workman.
" 8	6:50 p.m.	254	125-129 Dwight St	Brick	H. Kelsey	C't'r-Ch'sb.Co. R.W.Hitchen W.Lawson	Store	16,500.00	29,000	10,005.16 500.00 289.00	$15,500 500 400	Unknown.
	6:55 p.m.	254	125-129 Dwight St									Second alarm.
			135-137 Dwight St	B'k & f'me	H.W.VanAllen. Fl't'e Lum. Co.		Store	80.90 150.00	4,500 2,000			Exposure loss. Exposure loss.
" 8	7:25 p.m.	5 I.O.	222 W're't'r, I. O.	Frame	St. Aloysius Soc.	C.H.Morrissette	Dwelling					Chimney fire.
" 8	10:17 p.m.	Tel.	472 W'th'gt'n St.	Frame	E. M. Lyman	F. Frabizio	Dwelling	90.00	1,750	None		Gas heater.
" 9	8:25 a.m.	97	206 King St.	Frame	G. C. Burger	H. H. Carr	Dwelling	None		19.05	500	Child and match.
" 9	2:17 p.m.	Tel.	West St.	Dump								Dumping grounds.
" 9	3:20 p.m.	Tel.	Rushville	Grass								Grass fire.
" 9	4:48 p.m.	Tel.	Allen St.	Brush								Brush fire.
" 9	8:07 p.m.	67	400 Dickinson St.	Concrete	C. H. Alderman	W. C. Bartlett	Garage			571.00	2,400	Gasoline.
" 9	8:45 p.m.	still	Indian Orchard	Brush								Brush fire.
" 10	8:32 a.m.	Tel.	321 Chestnut St.	Frame	A. A. Richards		Dwelling	Slight		None		Spark from chimney.
" 10	9:55 a.m.	78	105 Greenwood St	Frame	Minnie Celan		Dwelling	310.00	5,000	350.00	500	Unknown.
" 10	10:28 a.m.	Tel.	29 Gardner St.	N'dl'ss al'm								Needless alarm.
" 10	3:00 p.m.	still	State St.	Trolly car								Trolly car.
" 10	5:13 p.m.	Tel.	Albany St.	Dump								Dumping grounds.
" 11	1:43 a.m.	32	175 Maple St.	Brick	D. F. Morin		Dwelling	40.00	22,000	None		Spontaneous combust'n.
" 12	10:44 a.m.	Tel.	83 Tyler St.	Frame	Shipley Est.	J. E. Dolan	Dwelling	50.00	3,000	10.00	600	Hot ashes.
" 14	2:25 p.m.	76	119 Bond St.	Frame	H. Grosky	H. Grosky	Dwelling	32.50	2,500	100.00	500	Child and matches.
" 15	4:17 p.m.	Tel.	Oak St., I. O.	Brush								Brush fire.
" 16	3:35 p.m.	Tel.	315 Main St.	Awning	Shea & Genack							Careless smoking.
" 17	9:22 a.m.	Tel.	17 Ringgold St.	N'dl'ss al'm								Needless alarm.
" 17	6:01 p.m.	79	331 Liberty St.	Frame	G. C. Tait	G. C. Tait	Coal shed	1,572.00	10,200	800.00	1,500	Careless smoking.
" 17	8:17 p.m.	25	224 Dwight St.	Brick	Morgan Est.	S. Auto TopCo Stan. G.M.Co.	Factory	None		244.00 50.00	9,000 2,000	Unknown.
" 18	12:50 p.m.	Tel.	Rochelle St.	Brush								Brush fire.
" 18	3:55 p.m.	Tel.	Longmeadow	Brush								Brush fire.
" 19	7:27 a.m.	253	316 Dwight St.	N'dl'ss al'm								Steam from press-bo'rd
" 19	1:18 p.m.	73	108 Calhoun St.	Frame	E. B. Parmelee	E. B. Parmelee	Dwelling	300.00	6,000	120.00	1,500	Careless with matches.
" 19	3:48 p.m.	Tel.	Arch St.	Grass								Grass fire.
" 19	7:15 p.m.	Tel.	Napier St.	Dump								Dumping grounds.
" 20	1:55 p.m.	Tel.	244 Orange St.	Frame			Dwelling					Chimney fire.

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DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
Apr. 20	9:15 p.m.	Tel.	310 Main St	Steel								Chimney fire.
" 21	8:42 a.m.	Tel.	337 Main St	Brick			Store	Slight		Slight		Awning.
" 21	3:07 p.m.	still	Wilbraham Rd.	Brush								Brush fire.
" 21	4:48 p.m.	Tel.	Palmer Ave	Grass								Grass fire.
" 21	7:21 p.m.	37	343 Water St	Brick	M. Ryan	S. Mazzaferno	Store	$12.00	$4,000	Slight		Gaslight and awning.
" 22	10:10 a.m.	Tel.	Indian Orchard	Brush								Brush fire.
" 22	11:40 a.m.	Tel.	Indian Orchard	Brush								Brush fire.
" 22	12:51 p.m.	Tel.	Toll bridge									Careless smoking.
" 22	3:50 p.m.	Tel.	Indian Orchard	Brush								Brush fire.
" 22	7:14 p.m.	Tel.	St. James Ave	Brush								Brush fire.
" 23	3:59 p.m.	Tel.	80 Sargeant St	Brick	L. Fontaine		Dwelling	60.00	16,000	None		Ash chute.
" 23	6:45 p.m.	still	464 Union St	Frame	G. St. Lawrence	E. Hayden	Dwelling	None		Slight		Careless with matches.
" 24	10:06 a.m.	Tel.	Longmeadow	Brush								Brush fire.
" 24	2:22 p.m.	Tel.	Armory & Summer	Dump								Dumping grounds.
" 24	2:43 p.m.	Tel.	Norfolk St	Grass								Grass fire.
" 24	2:45 p.m.	still	232 High St	Frame			Dwelling					Back smoke.
" 24	5:45 p.m.	Tel.	Off Allen St	Grass								Grass fire.
" 24	7:45 p.m.	Tel.	Wilbraham Rd	Brush								Brush fire.
" 25	9:45 a.m.	921	.	False								False alarm.
" 25	9:52 a.m.	41	54 Sharon St	Frame			Dwelling					Needless alarm.
" 25	11:44 p.m.	Tel.	417 Main St	Awning								Careless with matches.
" 26	1:30 p.m.	Tel.	Bay Road	Brush								Brush fire.
" 26	1:33 p.m.	475	30 Douglas St	Frame	J. B. Methe	J. B. Methe	Dwelling	795.00	3,500	$300.00	$1,000	Unknown.
" 26	2:54 p.m.	Tel.	Wilbraham Rd.	Grass								Grass fire.
" 27	9:10 a.m.	still	81 Vernon St	Brick	Mrs. J. E. Lincoln	Ida Zimmerman	Dwelling	75.00	2,000	None		Rob. set fire at g's m't'r.
" 27	12:25 p.m.	742	Roy St.	Brush								Brush fire.
" 27	2:42 p.m.	Tel.	Alden St	Grass								Spark from locomotive.
" 27	4:28 p.m.	Tel.	Alden St	Grass								Spark from locomotive.
" 27	5:39 p.m.	Tel.	Toll bridge									Careless smoking.
" 27	5:48 p.m.	341	Automobile									Gasoline.
" 27	8:00 p.m.	still	246 Quincy St	Frame								Broken gas fixture.
" 28	8:30 p.m.	45	40 Emery St	Brick	L. Katz	Tober Bros	Factory	85.00	2,000	430.00	4,500	Gas left burn'g in press.
" 28	9:32 p.m.	still	Dwight St.	Auto	Swiss C. & D Inc.							Gasoline.
" 30	4:44 p.m.	6	Phelps Ave	Rubbish								Rubbish.
" 30	5:12 p.m.	Tel.	Sheffield St	Brush								Brush fire.
" 30	5:35 p.m.	Tel.	False									False alarm.
May 1	10:21 a.m.	624	126 Malden St	Frame								Needless alarm.
" 1	11:00 a.m.	Tel.	100 W. State St.	Auto	T. J. Flanaghan							Gasoline.
" 1	12:05 p.m.	Tel.	Carew St	Brush								Brush fire.
" 1	12:15 p.m.	Tel.	Indian Orchard	Grass								Grass fire.
" 1	8:21 p.m.	981	Off Hickory St	Brush								Brush fire.
" 1	8:35 p.m.	still	Ledyard St	Dump								Dumping grounds.
" 2	1:06 p.m.	Tel.	St. James Ave	Grass								Grass fire.
" 2	1:50 p.m.	still	Ducharme St	Grass								Grass fire.
" 2	2:20 p.m.	Tel.	Off Cortland St	Brush								Brush fire.

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DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
May 2	3:03 p.m.	Tel.	Trinity Ter.....	Brush.....								Brush fire.
" 2	3:17 p.m.	Tel.	Toll bridge.....									Careless smoking.
" 2	3:36 p.m.	still	Van Horn Res....	Brush.....								Brush fire.
" 2	8:01 p.m.	513	146 Bay St.....	Frame.....	O. M. Home Corp.	J. Monroe.....	Dwelling....	$38.00	$3,500	$4.50	$700	Curtain and gas-jet.
" 3	12:22 a.m.	9	182 Lyman St....	Brick.....	C. E. Brown & Co.	C. E. Brown & Co.	Store.....					Unknown.
" 3	8:17 a.m.	83	79 Ashley St.....	Frame....	John Barry.....	J. T. Kelly.....	Dwelling....	45.00	1,000	25.00	None	Unknown.
" 3	9:20 a.m.	Tel.	Berkshire av.,I.O.	Brush.....								Brush fire.
" 3	9:43 a.m.	still	43 Talcott Ave...	Back draft.								Back draft.
" 3	1:48 p.m.	Tel.	Bay Road.....	Brush.....								Brush fire.
" 3	2:43 p.m.	Tel.	Allen St.....	Brush.....								Brush fire.
" 3	2:45 p.m.	Tel.	Parker, I. O.....	Brush.....								Brush fire.
" 3	3:04 p.m.	still	r. Camp Grounds	Brush.....								Brush fire.
" 3	3:12 p.m.	Tel.	Woodbine Ave...	Brush.....								Brush fire.
" 3	3:40 p.m.	still	Bay Rd., I. O....	Brush.....								Brush fire.
" 3	5:07 p.m.	Tel.	24 Raymond Ave.	Frame.....	H. Leigeman....		Shed.....					Children and matches.
" 3	7:15 p.m.	Tel.	Johnston St., I.O.	Brush.....								Brush fire.
" 3	7:25 p.m.	still	18 Waverly St...	Frame.....	J. Boyd.....	J. Boyd.....	Dwelling....	None		10.00	None	Careless with matches.
" 3	7:42 p.m.	Tel.	361-369 Main St..	Brick.....	G. W. V. Smith..	C. E. Lynch.....	Stores.....	None		43.24	30,500	Heat from gas stove.
" 4	1:37 p.m.	Tel.	Long Hill St.....	Grass.....								Grass fire.
" 4	2:13 p.m.	still	Locust St.....	Trolly car.								Trolly car.
" 4	3:40 p.m.	still	Berkshire St., I.O.	Brush.....								Brush fire.
" 4	4:13 p.m.	Tel.	Albany St.....	Dump.....								Dumping grounds.
" 4	7:28 p.m.	271	91 Water St.....	Brick.....	Phelps R. Trust..	A. Funai.....	Store.....	535.00	4,900	730.89	2,000	Unknown.
" 5	12:57 p.m.	25	216 Dwight St...	Brick.....	Morgan Estate..		Factory.....					Electric motor.
" 5	2:33 p.m.	Ther.	South St.....	Brick.....	Bemis & Call....		Factory.....					Broken sprinkler head.
" 5	2:53 p.m.	Tel.	Huron St.....	Grass.....								Grass fire.
" 5	5:08 p.m.	Tel.	Toll bridge.....	False.....								False alarm.
" 5	5:22 p.m.	Tel.	Cherrelyn Ave...	Grass.....								Grass fire.
" 5	6:25 p.m.	still	Walnut St.....	Trolly car.								Trolly car.
" 5	7:40 p.m.	Tel.	Hickory St.....	Brush.....								Brush fire.
" 5	8:59 p.m.	Tel.	Allen St.....	Auto.....	Dr.J.P.Hillard...			550.00	1,000	None		Gasoline.
" 6	6:56 a.m.	Tel.	14 Arbutus St....	Frame.....			Dwelling....					Chimney fire.
" 6	7:50 p.m.	Tel.	Off Albany St....	Dump.....								Dumping grounds.
" 6	8:25 p.m.	Tel.	Sharon St.....	False.....								False alarm.
" 7	11:52 a.m.	Tel.	553 Main St.....	N'd'ss'l'm								Back smoke.
" 8	5:08 a.m.	Ther.	983 Main St.....	Brick.....			Factory.....					Defective thermostat.
" 8	1:08 p.m.	Tel.	Imperial Park....	N'd'ss'l'm								Out of town.
" 8	4:05 p.m.	still	Mill St.....	Rubbish...								Rubbish.
" 8	8:45 p.m.	Tel.	Wason Ave.....	Brick.....	Wason Mfg. Co..	Wason Mfg. Co..	Factory.....					Sparks from boiler.
" 9	5:00 p.m.	Tel.	Main & Wor. Sts.	Trolly car.								Trolly car.
" 9	11:18 p.m.	still	130 Eastern Ave..	Frame.....								Chimney fire.
" 10	7:43 a.m.	Tel.	558 Plainfield St..	Frame.....								Sparks from chimney.
" 10	8:45 a.m.	still	South End Dump.									Dumping ground.
" 10	10:15 a.m.	Tel.	Albany St.....	Dump.....								Dumping ground.
" 10	12:58 p.m.	still	61 Locust St.....	Frame.....	F. D. Kemp.....		Dwelling....					Careless smoking.
" 10	2:21 p.m.	Tel.	44 Talcott Ave...	Frame.....			Dwelling....					Chimney fire.

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DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
May 10	3:23 p.m.	Tel.	D'tm'th&C'n'llSts	Grass.....								Grass fire.
" 10	5:10 p.m.	Tel.	n. Sumner Ave..	R. R. ties..								Railroad ties.
" 10	5:47 p.m.	Tel.	State St.....	Stove.....	Ch. of the Unity.		Church.....					Back smoke.
" 11	2:31 a.m.	Tel.	76 Norwood St...	Frame.....			Dwelling....					Careless with matches.
" 11	9:01 a.m.	271	r. 93 Water St...	Rubbish...								Careless smoking.
" 11	3:41 p.m.	54	146&148A'm'rySt.	Frame.....	M. J. Hannon...	M. J. Hannon...	Icehouse....	$200.00	None	$300.00	None	Unknown.
			140&142A'm'rySt.	Frame.....	M. Regan.....	M. Regan.....	Henhouse....	10.00	None			Exposure loss.
" 11	6:40 p.m.	Tel.	Indian Orchard...	Brush.....								Brush fire.
" 11	10:05 p.m.	still	300 Hancock St..	Frame.....			Dwelling....					Chimney fire.
" 12	11:30 p.m.	Tel.	Long Hill St.....	Grass.....								Grass fire.
" 12	6:22 p.m.	473	130 Birnie Ave...	Frame.....	S. Met. Body Co.	S. Met. Body Co.	Factory.....	119.05	$242,500 Blanket	212.00		Careless smoking.
" 12	6:30 p.m.	21	489 Main St.....	Brick.....		Waldorf Lunch.	Block.....					Pan of grease.
" 12	7:02 p.m.	41	91 Sharon St.....	Frame.....	J. Squirsky.....	S. Finkler.....	Dwelling....	110.00	8,000	25.00	$500	Unknown.
" 13	2:55 p.m.	still	Bay Road, I. O...	Brush.....								Brush fire.
" 14	11:18 a.m.	Tel.	104 Andrew St...	Grass.....								Grass fire.
" 14	2:55 p.m.	Tel.	White St.....	Grass.....								Grass fire.
" 15	10:07 a.m.	still	Locust St.....	Trolly car.								Trolly car.
" 15	1:16 p.m.	Tel.	339 W'th'gt'n St.	Auto hearse	T. P. Sampson Co.							Gasoline.
" 15	4:30 p.m.	43 I O	Indian Orchard..	Brush.....								Brush fire.
" 15	6:21 p.m.	623	7 Beaumont Ter..	Frame.....	E. Rioux.....		Dwelling....	12.50	5,500			Children.
" 15	6:42 p.m.	Tel.	n.St. Mich'l'sCem.	Brush.....								Brush fire.
" 15	10:26 p.m.	Tel.	Wilbraham Rd...	Brush.....								Brush fire.
" 16	2:53 p.m.	39 I O	Indian Orchard...	Frame.....	Ludlow Asso.....	John Seback....	Dwelling....	None		3.00	None	Unknown.
" 17	7:39 p.m.	Tel.	Napier St.....	Dump.....								Dumping ground.
" 19	1:08 p.m.	Tel.	Railroad Row....	Fence.....								Spark from locomotive.
" 19	1:58 p.m.	Tel.	Hampden Park...	Fence.....								Dump fire.
" 19	2:55 p.m.	Tel.	No. End bridge...									Unknown.
" 19	7:37 p.m.	still	32 Dymond St...	Frame.....	C. C. Spencer...		Dwelling....					Chimney fire.
" 19	8:00 p.m.	4 I.O.	Indian Orchard..	False.....								False alarm.
" 19	8:29 p.m.	741		False.....								False alarm.
" 20	2:09 a.m.	49	Wason Ave.....	Brick.....	Wason Mfg. Co..	Wason Mfg. Co..	Factory.....	3,300.00	425,000 Blanket			Unknown.
	2:16 a.m.	488	Wason Ave.....	Brick.....	Wason Mfg. Co..	Wason Mfg. Co..	Factory.....					Second alarm.
" 20	12:40 p.m.	Tel.	Bowdoin St.....	Dump.....								Dumping ground.
" 20	5:20 p.m.	Tel.	Longmeadow.....	False.....								Out of town.
" 20	7:17 p.m.	Tel.	39 Morgan St....	Frame.....			Dwelling....					Chimney fire.
" 21	8:56 a.m.	still	17 Guild Ave....	Frame.....	Hattie Lincoln...		Dwelling....	Slight		None		Chimney fire.
" 21	8:57 a.m.	Tel.	Belmont Ave.....	False.....								False.
" 21	9:50 p.m.	Tel.	Indian Orchard...	Frame.....			Hut.....					Unknown.
" 23	10:50 p.m.	795	112 Grover St....	Frame.....	C. Keefe.....	C. Keefe.....	Dwelling....	670.00	2,500	None	None	Unknown.
						E. J. Russell...	Dwelling....			200.00		
" 24	7:44 p.m.	16	213 Summer St...	Frame.....	Rosa Bergman...	P. H. Halloran...	Dwelling....	400.00	1,000	95.00	850	Accident with lamp.
" 24	9:38 p.m.	921		False.....								False alarm.
" 25	12:01 p.m.	981	Hickory St.....	Frame.....	F. Emery Heirs..	S. Con. Ice Co...	Icehouses....	2,500.00	2,500	2,225.00	2,225	Unknown.
" 27	12:58 p.m.	14	r. 156 Spring St..	Frame.....			Barn.....					Unknown.

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DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings. Loss on	Buildings. Ins. on	Contents. Loss on	Contents. Ins. on	Cause and Circumstances of Fire.
May 27	8:46 p.m.	43	16 Carew Pl.	Brick	E. Granstein	A. C. Brayton. Jas. McHale.	Dwelling	$450.00	$5,000	$195.45 10.00	$1,000 None	Unknown.
" 28	1:40 p.m.	Tel.	43 Main St.	Brick			Apartment					Meat on stove.
" 28	6:32 p.m.	Tel.	State St.	Trolly car.								Trolly car.
" 28	7:15 p.m.	still	192 Pine St.	Frame			Dwelling					Chimney fire.
" 29	10:55 p.m.	still	Dickinson St.	Trolly car.								Trolly car.
" 30	2:50 p.m.	Tel.	104 Union St.	Frame	M. Fowler	L. N. White	Dwelling	None		8.00	1,000	Defective chimney.
" 30	9:43 p.m.	Tel.	Imperial Park	Brush								Brush fire.
" 31	11:24 a.m.	Tel.	454 W'th'gt'n St.	Auto.								Gasoline.
" 31	12:30 p.m.	still	129 Taylor St.	Frame	E. T. Davis		Dwelling	Slight				Careless smoking.
" 31	2:12 p.m.	981	Hickory St.	Grass								Grass fire.
June 1	11:32 a.m.	Tel.	224 Main St.	Brick	M. D. Goetting	Hotel Russell	Hotel					Spark from locomotive.
" 1	6:35 p.m.	still	Dickinson St.	Trolly car.								Trolly car.
" 3	12:55 p.m.	Tel.	72 Washburn St.	Frame	Mrs. M. Griffin	Mrs. E. O'Conn'r	Dwelling	19.25	2,200	32.00	500	Children and matches.
" 3	1:54 p.m.	Tel.	Hickory St.	Brush								Brush fire.
" 3	3:47 p.m.	still	Hickory St.	Brush								Brush fire.
" 3	10:20 p.m.	still	Guild Ave.	Frame	Miss H. A. Line'n	None	Shed					Unknown.
" 4	1:10 p.m.	271	29 Worthington St	Concrete	P. Pub. Co.	W. C. King	Block	Slight		100.00	None	Unknown.
" 4	1:25 p.m.	Tel.	No. End bridge.									Needless alarm.
" 4	1:52 p.m.	Tel.	Stebbins Pl.	Aut.truck	J. L. Leber	J. J. Sullivan						Gasoline.
" 5	8:53 a.m.	Tel.	No. End Bridge.									Live wire.
" 5	1:50 p.m.	Tel.	365 Main St.	Brick		Chas. Lynch	Block					Chimney fire.
" 5	7:27 p.m.	Tel.	E. Springfield	Brush								Brush fire.
" 5	8:13 p.m.	934	Marlboro Ave.	Frame	J. Boucher		Dwelling					Spontaneous combust'n.
" 5	11:37 p.m.	74	522 Chestnut St.	Frame	H. Greengard	N. P. Burke	Dwelling	30.00	4,000	None		Unknown.
" 6	3:42 p.m.	Tel.	No. End bridge.									Unknown.
" 6	8:15 p.m.	still	Napier St.	Dump								Dumping grounds.
" 6	10:58 p.m.	Tel.	156 Lyman	Brick								Broken sprinkler head.
" 7	5:26 p.m.	Tel.	Main St.	Trolly car.								Trolly car.
" 7	6:50 p.m.	still	71 King	Frame								Chimney fire.
" 8	1:25 a.m.	41	36 Ferry	Brick	Mrs. J. Steinberg	R. Karam	Store	85.00	30,000	325.00	600	Unknown.
" 8	8:34 a.m.	Tel.	30 Howard	p'nofgrease								Pan of grease.
" 8	8:25 p.m.	Tel.	No. End bridge.									Unknown.
" 8	12:10 p.m.	still	Indian Orchard	Trolly car.								Trolly car.
" 9	5:07 p.m.	Tel.	Wason Ave.	Brick	Wason Mfg Co.	Wason Mfg. Co.	Car shops					Pouring metal.
" 10	11:11 a.m.	84	15 Melrose	Frame	H. Granstein		Outhouse	100.00	None	None		Hot ashes.
" 10	12:28 p.m.	still	Mill & Locust.	Trolly car.								Trolly car.
" 10	3:15 p.m.	still	Liberty St.	Auto.								Gasoline.
" 10	8:23 p.m.	14	624 Worthington	Auto.	T. W. Burden					175.00	400	Gasoline.
" 11	12:31 a.m.	Tel.	40 Liberty	Rubbish								Rubbish.
" 11	5:55 p.m.	21	9 Bliss St.	Brick				None		20.00	None	Careless smoking.
" 12	1:48 p.m.	Tel.	No. End bridge.									Unknown.
" 12	2:01 p.m.	452	720 North St.	Frame	Swartz	None	Shed	200.00	15,000	None		Unknown.
" 12	2:15 p.m.	Tel.	Pecousic Ave.	Frame	C.A.Bartholom'w		Sawmill					Spark from boiler.
" 12	2:50 p.m.	Tel.	Albany St.	Dump								Dumping ground.

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DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
June 12	7:47 p.m.	462	19 Orchard St...	Frame....	L. & J. Levin....	F. Leclair.....	Dwelling....	$866.00	$2,700	$385.00	$600	Unknown.
" 13	3:47 p.m.	Tel.	Genesee St.....	Dump....								Dumping ground.
" 14	1:26 p.m.	Tel.	No. End bridge..									Careless smoking.
" 14	7:15 p.m.	Tel.	Elm St.....	Trolly car.								Trolly car.
" 15	6:15 a.m.	Tel.	Albany St.....	Dump....								Dumping ground.
" 15	11:58 a.m.	Tel.	No. End bridge..									Unknown.
" 15	1:20 p.m.	Tel.	Bay St.....	Brush.....								Brush fire.
" 15	2:16 p.m.	Tel.	No. End bridge..									Unknown.
" 16	10:39 a.m.	Tel.	St. James Ave...	Brush.....								Brush fire.
" 16	1:19 p.m.	41	10 Boylston St..	Brick.....	Jos. Menard.....	S. Mattress Co...	Factory.....	1,776.00	2,750	1,175.00	2,000	Unknown.
			30 Cypress.....	Frame....				279.15	3,000	130.00	800	Exposure loss.
			9 Fulton.....	Frame....	J. Menard.....		Dwelling....	76.60	1,500			Exposure loss.
			16 Boylston St...	Frame....	M. J. Huntley...		Dwelling....	25.00	1,800			Exposure loss.
" 16	5:25 p.m.	still	Genesee St.....	Dump.....								Dumping ground.
" 16	7:31 p.m.	81	206 Walnut St...	Frame....	Isaac Silverman..	Isaac Silverman..	Dwelling....	None		200.00	660	Accident with lamp.
" 16	8:35 p.m.	Tel.	Warwick St.....	Rubbish...								Rubbish.
" 16	10:47 p.m.	still	Dickinson St.....	Trolly.....								Trolly car.
" 17	12:40 p.m.	Tel.	172 Summer St..	Frame....	N. Y., N. H. & H.		Dwelling....	Slight		None		Spark from locomotive.
" 17	1:50 p.m.	713		False.....								False alarm.
" 17	3:53 p.m.	Tel.	North End bridge									Unknown.
" 17	4:21 p.m.	Tel.	Sanford St.....	Aut'm'ble.								Gasoline.
" 17	8:05 p.m.	34	10 Loring St.....	Frame....	J. W. Joyce.....	J. Blair.....	Dwelling....	10.00	3,000	Slight		Curtain and gas jet.
" 18	10:35 a.m.	Tel.	Boston Rd., I. O..	Brush.....								Brush fire.
" 18	11:03 p.m.	273		False.....								False alarm.
" 19	8:30 a.m.	Tel.	116 Ingersoll Gr..									Gas leak.
" 19	8:45 a.m.	Tel.	16 Stafford St....	Frame....	B. Radding.....	L. Cohen.....	Dwelling....	None		5.00	None	Curtain and gas jet.
" 19	12:27 p.m.	Tel.	N'rth B.&A. tr'ks	Brush.....								Brush fire.
" 19	1:25 p.m.	413	211 Main St.....	Brick.....	Henry E. Marsh	Cooley'sHotel...	Hotel.....					Careless smoking.
" 19	2:05 p.m.	43 I O	Indian Orchard..	Frame....	J. J. Harper.....	Raymond Long..	Dwelling....	30.00	3,500	5.00	None	Careless smoking.
" 19	2:45 p.m.	41	224 Main St.....	Brick.....	M. D. Goetting..	Hotel Russell....	Hotel.....	50.00	60,000	Slight		Unknown.
" 19	3:27 p.m.	25 I O	Indian Orchard..									Food burning in gas oven.
" 20	12:58 p.m.	Tel.	Main & Norwood.	Trolly.....								Trolly car.
" 21	7:23 a.m.	21	541 Main St.....	Brick.....	M'K'chnie & L'ry	J. Aronson.....	Dw'lling&st'e	40.00	6,000	110.00	3,000	Unknown.
" 21	9:01 p.m.	98	264 Eastern Ave..	Frame....	Max Miller.....	Max Miller.....	Dw'g & store.					Fireworks.
" 22	7:30 a.m.	still	Rear 194 Chestnut									Ash barrels.
" 22	2:35 p.m.	451	629 North St.....	Brick.....	T. Simcovitz....	N. Chepenik.....	Store.....	None		3.50	500	Careless smoking.
" 22	3:50 p.m.	Tel.	North End bridge									Unknown.
" 22	11:41 p.m.	84	486 Mill.....	Frame....	C. C. Abbey....	Florence Mehala.	Store.....	275.00	4,000	190.00	1,000	Unknown.
						F. C. Ross....				480.00	600	
" 23	2:25 a.m.	8	238-250 W'th'gt'n	Brick.....	D Burbank, 2d..	G. A. Othote..	St're & f'et'ry	1,621.74	5,000	295.94	1,800	Unknown.
						O. B. Deane..				60.00	2,000	
			254 W'rth'gt'n St.	Brick.....	M. D. Goetting..			9.70	2,500			Exposure loss.
			47-49 Taylor St...	Brick.....	J. Russell's Sons.			105.00	20,000			Exposure loss.
" 23	9:37 a.m.	still	Parkside Ave....	Grass.....								Grass fire.
" 23	4:20 p.m.	Tel.	25 Elm St.....	Awning....		W. H. Dexter...		None		17.00	800	Careless smoking.
" 23	7:47 p.m.	641	Dumont St.....	Autom'ble.	Geo. Mansfield..			185.00	800	None		Automobile.

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DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
June 24	5:05 p.m.	43	20 Church St....	Frame....	H. E. Dubois....	H. E. Dubois....	Dwelling....	$22.00	$2,500	$20.00	$1,000	Children and matches.
" 25	1:55 p.m.	Tel.	North End bridge	False.....								False alarm.
" 25	4:26 p.m.	Tel.	Main opp. Broad.	Trolly.....								Trolly car.
" 25	7:50 p.m.	Tel.	531 W'rth'gt'n St.	Brick.....	George Smith...		Garage.....					Careless with gasoline.
" 26	7:36 a.m.	still	471 W'rth'gt'n St.	Brick.....	Br'dh'rst&Ad'ms.	Br'dh'rst Dye Hse	Store.....	50.00	14,000			Heat from boiler.
" 26	6:44 p.m.	Tel.		False.....								False alarm.
" 26	7:05 p.m.	37	93 Margaret St...	Frame....	E. L. E. Healey..	G. DiSanti.....	Dwelling....	25.00	1,000	100.00	1,000	Unknown.
" 27	1:15 p.m.	Tel.	Longmeadow...	Forest fire.								Out of town.
" 27	9:21 p.m.	Tel.	Albany.....	Dump....								Dumping grounds.
" 27	11:17 p.m.	475	Off Birnie Ave...	Freight car	N.Y. C. R. R.Co.	B. & M. R.R.Co.		Slight	Blanket	311.00		Matches in car.
" 27	11:45 p.m.	still	Main St.....	Dump....								Dumping ground.
" 28	10:42 a.m.	46	42 Auburn St....	Frame....	M. Gross.....	M. Gross.....	Barn.....					Unknown.
" 28	2:30 p.m.	still	South St.....	Dump....								Dumping ground.
" 28	4:07 p.m.	712	Off Springfield...	Leaves....								Leaves.
" 28	7:02 p.m.	17	17 Walnut St....	Frame....	Mrs. K. Crowley.	A. Lazarus.....	Barn.....	1,405.00	1,500	889.50	5,000	Unknown.
			17 Walnut St....			J. J. Walsh.....		477.00	5,050			Exposure loss.
" 28	8:22 p.m.	14	174 Spring.....	Frame....	E. F. Enright...	P. O'Donnell....	Dwelling....	60.00	3,000	103.00	500	Unknown.
" 29	9:11 p.m.	Tel.	36 Congress St...	Rubbish...								Rubbish.
" 30	10:07 a.m.	still	Chestnut St.....	Trolly.....								Trolly car.
" 30	12:13 p.m.	Tel.	Wilbraham Rd...	Grass.....								Grass fire.
" 30	2:46 p.m.	Tel.	Cornell St.....	Grass.....								Grass fire.
" 30	4:18 p.m.	Tel.	Washington Rd..	Forest....								Forest fire.
" 30	4:23 p.m.	still	125 Water St....	Frame....	B. Radding.....	J. E. Bardelli....	Dwelling....					Careless smoking.
						F. A. Sullivan...	Store.....			525.00	1,000	
" 30	7:36 p.m.	794	341 Liberty St...	Frame....	Mrs. M. Garvey.	Nora M. O'Brien		690.00	4,000	102.06	800	} Unknown.
July 1	11:05 a.m.	612	Main St.....	Frame....	F. J. Richards...	F. J. Richards...	Factory.....	105.00	35,000	None		Spark, picking machine.
" 1	9:17 p.m.	Tel.	North End bridge									False alarm.
" 2	3:00 p.m.	Tel.	52 Franklin St...	Frame....			Dwelling....					Children and matches.
" 2	5:29 p.m.	still	State St.....	Trolly.....								Trolly car.
" 2	9:05 p.m.	still	341 Dwight St...	Brick.....			Store.....					Candle and straw.
" 3	2:36 a.m.	21	140 State St.....	Brick.....	N. D. Winter....	Lewis J. Ball Co.	Store.....	2,311.00	16,157	1,647.65	13,675	Unknown.
" 3	6:25 p.m.	Still	Locust St.....	Trolly.....								Trolly car.
" 3	11:18 p.m.	98	Colchester St....	Frame....	S. Coulombe....	S. Coulombe....	Storehouse...	25.00	200	40.00	500	Incendiary.
" 3	11:39 p.m.	Tel.	Albany St.....	Dump....								Dumping grounds.
" 3	11:43 p.m.	Tel.	Essex St.....	Bonfire....								Bonfire.
" 4	12:05 a.m.	still	Greenwood St....	Bonfire....								Bonfire.
" 4	12:20 a.m.	still	Franklin St.....	Bonfire....								Bonfire.
" 4	12:45 a.m.	Tel.	Colton St.....	Bonfire....								Bonfire.
" 4	12:50 a.m.	97	Colton St.....	Bonfire....								Bonfire.
" 4	12:53 a.m.	Tel.	Franklin St.....	Bonfire....								Bonfire.
" 4	1:17 a.m.	795	Grover St.....	Bonfire....								Bonfire.
" 4	1:30 a.m.	still	Essex St.....	Bonfire....								Bonfire.
" 4	2:07 a.m.	still	Tenth St.....	Bonfire....								Bonfire.
" 4	2:29 a.m.	still	North & Bond Sts.	Bonfire....								Bonfire.
" 4	2:33 a.m.	Tel.	North & Tenth Sts.	Bonfire....								Bonfire.

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DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
July 4	2:39 a.m.	Tel.	Clifton Ave.	Bonfire								Bonfire.
" 4	2:51 a.m.	Tel.	North & Tenth Sts.	Bonfire								Bonfire.
" 4	3:14 a.m.	Tel.	North & Essex Sts.	Bonfire								Bonfire.
" 4	3:15 a.m.	71	109 Springfield St.	Frame	Springfield Hosp.	E. J. Vezina	Barn	$100.00	$100	$60.00	$150	Incendiary.
" 4	3:32 a.m.	still	Tenth St	Bonfire								Bonfire.
" 4	3:57 a.m.	Tel.	Franklin St.	Bonfire								Bonfire.
" 4	4:17 a.m.	still	Essex St.	Bonfire								Bonfire.
" 4	4:40 a.m.	352	617 Main St.	Awning	J. C. & P. L. Morse	A. C. Burnett		60.00	10,000	12.00	None	Fireworks.
" 4	4:58 a.m.	Tel.	Liberty St.	Bonfire								Bonfire.
" 4	5:50 a.m.	Tel.	Greenwood St.	Bonfire								Bonfire.
" 4	6:35 a.m.	Tel.	Main & Essex Sts.	Bonfire								Bonfire.
" 4	11:13 a.m.	Tel.	Spfd. Hosp. Gr'ds	Grass								Grass fire.
" 4	11:23 a.m.	Tel.	Middlesex St.	Brush								Brush fire.
" 4	12:55 p.m.	t'l I O	Parker St., I. O.	Brush								Brush fire.
" 4	2:11 p.m.	91		Grass								Grass fire.
" 4	2:27 p.m.	Tel.	r. 536 W'rth'gt'n.	Frame			Shed					Rubbish.
" 4	2:57 p.m.	54	Off Armory St	Dump								Dumping grounds.
" 4	4:14 p.m.	96	182 Quincy St.	Frame	N. Stagnaro	N. Stagnaro	Shed	40.00	2,000	None		Fireworks.
" 4	6:07 p.m.	Tel.	42 Pasadena St.	Frame	J. Schmelsinger	G. J. Ross	Dwelling	20.00	3,500	None		Fireworks.
" 4	7:19 p.m.	Tel.	Essex St.	Bonfire								Bonfire.
" 4	7:41 p.m.	Tel.	52 Calhoun St.	Frame	Est. of M. Cooley	F. S. Cooley	Dwelling	85.00	3,500	50.00	1,500	Fireworks.
" 4	8:30 p.m.	Tel.	96 Marion St.	Frame	T. A. Loomis	T. A. Loomis	Dwelling	20.00	2,000	None		Fireworks.
" 4	8:32 p.m.	still	132 Bemis Pl.	Frame	Williams		Dwelling					Fireworks.
" 4	8:39 p.m.	Tel.	Essex St.	Bonfire								Bonfire.
" 4	9:03 p.m.	Tel.	32–36 Chase Ave.	Frame			Dwelling					Fireworks.
" 4	9:21 p.m.	Tel.	Franklin St.	Bonfire								Bonfire.
" 4	9:39 p.m.	78	11 Linden St.	Frame	S. Slowinsky		Dwelling					Fireworks.
" 4	9:45 p.m.	34	10 Loring St.	Frame	J. W. Joyce		Dwelling					Fireworks.
" 4	10:05 p.m.	451	Liberty St.	Rubbish								Fireworks.
" 5	6:56 a.m.	271	Wight Ave.	Brick	Forbes & Wallace	Forbes & Wallace	Stable	825.46	6,000	148.43	4,000	Unknown.
" 5	7:38 a.m.	Tel.	Sumner Ave.	Brush								Brush fire.
" 5	8:00 a.m.	still	Indian Orchard	Tree								Children.
" 5	1:30 p.m.	Tel.	Indian Orchard	Brush								Brush fire.
" 5	2:30 p.m.	Tel.	Indian Orchard	Brush								Brush fire.
" 5	5:10 p.m.	Tel.	Westford Ave.	Brush								Brush fire.
" 5	7:00 p.m.	Tel.	Boston Rd., I. O.	Brush								Brush fire.
" 5	7:33 p.m.	Tel.	Pecousic Ave.	Tar kettle								Hot tar.
" 5	8:44 p.m.	Tel.	Westford Ave.	Brush								Brush fire.
" 5	8:57 p.m.	795	Grover St.	Grass								Grass fire.
" 5	9:00 p.m.	still	99 Grover St.	Frame	M. J. Harrigan	Mrs. E. Busch	Dwelling	Slight		None		Defective gas fixture.
" 6	1:40 p.m.	Tel.	North End bridge									Unknown.
" 6	2:30 p.m.	Tel.	Bay St.	Brush								Brush fire.
" 6	5:23 p.m.	Tel.	Bay St.	Brush								Brush fire.
" 6	5:35 p.m.	still	Hampshire St., I O	Frame			Dwelling					Chimney fire.
" 7	7:45 a.m.	Tel.	East Main St., I. O.	Dump								Dumping grounds.
" 7	9:40 a.m.	Tel.	Indian Orchard	Frame								Pan of grease.

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DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
July 7	7:24 p.m.	still	Walnut St.....	Trolly.....								Trolly car.
" 8	8:08 p.m.	Tel.	False.....									False alarm.
" 8	9:55 p.m.	Tel.	Prospect & Carew.	Dump....								Dumping ground.
" 9	8:40 a.m.	27 I O	Indian Orchard...	Frame....	L. Lyons.....		Dwelling....					Children and matches.
" 9	1:06 p.m.	795	Rear Camp Gr'nd	Brush.....								Brush fire.
" 9	9:17 p.m.	Tel.	Albany St.....	Dump....								Dumping grounds.
" 9	11:09 p.m.	91	132 College St....	Frame....	Florence Lincoln.	H. E. Cooley....	Dwelling....	$50.00	$2,500	$30.00	$1,000	Curtain and gas jet.
" 11	10:10 a.m.	Tel.	n'rB.&A.tr'cks,IO	Brush.....								Brush fire.
" 11	10:59 a.m.	795	Carew St.....	Grass.....								Grass fire.
" 11	1:30 p.m.	still	365 W'rth'gt'n St.	Frame....	Smith R'lty Tr'st		Dwelling....					Careless smoking.
" 11	3:02 p.m.	Tel.	r 60 Monmouth St.	Fence.....	L. E. Stevens....			Slight		Slight		Unknown.
" 11	3:10 p.m.	4 I. O.	Indian Orchard...	Grass.....								Grass fire.
" 11	4:26 p.m.	still	Camp ground....	Brush.....								Brush fire.
" 11	8:57 p.m.	Tel.	North End bridge									Unknown.
" 12	2:05 a.m.	791	Heywood Ave....	Concrete..	BaySt'teSt'geCo.	BaySt'teSt'geCo. Spfd. Waste Co..	Block.....	6,100.00	10,000	200.00 8,753.72	1,000 12,000	Unknown.
" 12	2:20 a.m.	Tel.	St. James Ave....	Dump....								Dumping grounds.
" 12	7:40 a.m.	Tel.	Grenada Terrace..	Grass.....								Grass fire.
" 12	1:33 p.m.	Tel.	Birnie Ave.....	Pile of ties.								Spark from locomotive.
" 12	3:55 p.m.	still	Old Bay Rd., I. O.	Brush.....								Brush fire.
" 12	4:30 p.m.	Tel.	Allen St.....	Dump....								Spark from locomotive.
" 12	8:25 p.m.	981	State St.....	Frame....	City of Spfd.....	City of Spfd.....	Pest house...	3,500.00	None	None		Incendiary.
" 12	10:50 p.m.	Tel.	181 Quincy St....	Frame....	J. F. Carman....	M. Silva..... M. Robidian..	Dwelling....	8.00	1,500	None		Chimney fire.
" 13	3:35 p.m.	Tel.	Indian Orchard...	Grass.....								Grass fire.
" 13	3:38 p.m.	Tel.	Wilbraham Rd...	Brush.....								Brush fire.
" 13	9:30 p.m.	475	30 Douglas St....	Frame....	J. B. Methe.....	S. Sussier.....	Dwelling....	5.00	2,698			Curtain and gas jet.
" 14	9:27 a.m.	84	129 Hickory St...	Frame....	F. A. Johnson...	William Price...	Dwelling....	Slight		15.00	None	Incendiary.
" 14	11:28 a.m.	Tel.	Wilbraham Rd...	Brush.....								Brush fire.
" 14	2:32 p.m.	still	20 Walnut St....	Frame....								Needless alarm.
" 14	3:35 p.m.	Tel.	Aster St.....	Brush.....								Brush fire.
" 14	5:16 p.m.	Tel.	Baxter St.....	Brush.....								Brush fire.
" 14	6:20 p.m.	Tel.	Railroad Row....	Frame....								Needless alarm.
" 14	7:15 p.m.	Tel.	Aster St.....	Frame....								Needless alarm.
" 15	11:03 a.m.	Tel.	Rear 123 Taft St.	Grass.....								Grass fire.
" 15	1:05 p.m.	Tel.	8 Pynchon St....	Brick.....		Haynes Hotel...	Hotel.....					Back smoke.
" 15	2:05 p.m.	Tel.	14 Monmouth St.	Brush.....								Brush fire.
" 15	2:14 p.m.	Tel.	Dartmouth St....	Brush.....								Brush fire.
" 15	2:44 p.m.	Tel.	Wilbraham Rd...	Brush.....								Brush fire.
" 15	9:07 p.m.	42	180 Main St.....	Brick.....	M. D. Goetting..	L. Robinson.....	Store.....	55.0)	19,817	208.73	8,000	Unknown.
" 15	11:41 p.m.	38	400 Water St....	Frame....	J. H. Lodi.....	J. Capagnoni....	Barn.....	258.85	300	Slight		Unknown.
" 16	10:46 a.m.	Tel.	Washington Rd..	Brush.....								Brush fire.
" 16	11:11 a.m.	Tel.	Sumner Ave.....	Grass.....								Grass fire.
" 16	6:54 p.m.	Tel.	South St.....	Grass.....								Grass fire.

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DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
July 17	2:55 p.m.	Tel.	Hickory St	Grass								Grass fire.
" 17	4:27 p.m.	Tel.	St. James Ave	Grass								Grass fire.
" 17	5:30 p.m.	Tel.	Indian Orchard	Grass								Grass fire.
" 17	5:47 p.m.	Tel.	Washington Rd	Brush								Brush fire.
" 17	7:28 p.m.	78	355 Chestnut St	Frame	Mrs. Hitchcock	D. J. Foley	Dwelling	Slight		$60.00	$500	Children and matches.
" 17	8:54 p.m.	Tel.	Dickinson St	Brush								Brush fire.
" 19	1:00 a.m.	81	106 Walnut St	Frame	J. Aivalis	J. Aivalis	Barn	$275.00	$300	368.00	500	Unknown.
" 19	2:37 a.m.	Tel.	Boston Rd	Frame	Cora W. Wilkes	Cora W. Wilkes	Dwelling	500.00	500	1,011.07	1,085	Accident with lamp.
" 19	9:25 a.m.	Tel.	97-99 High St	Brick	H. C. Webster		Dwelling					Burning rubbish.
" 19	11:08 a.m.	Tel.	Wilbraham Rd	Brush								Brush fire.
" 19	6:17 p.m.	Tel.	400 Water St	Frame	J. H. Lodi	J. Capagnoni	Barn					Rekindling former fire.
" 20	11:30 a.m.	Tel.	Hampden Park	Hay				Slight				Unknown.
" 20	1:00 p.m.	Tel.	Outcity (Chic'pee)									Needless alarm.
" 21	9:10 a.m.	744	61 Miller St	Frame	Peter Vanini	W. Alesandro	Garage	40.00	3,000	None		Careless with gasoline.
" 21	1:38 p.m.	Tel.	n Lombard res'v'r	Brush								Brush fire.
" 22	4:33 a.m.	791	417 Liberty St	Frame	A. H. Hovey	None	Barn	10.00	500	None		Careless smoking.
" 22	7:15 a.m.	Tel.	81 Orleans St	Rubbish	S. Papas							Rubbish fire.
" 22	1:37 p.m.	Tel.	Wilbraham Rd	Brush								Brush fire.
" 22	1:40 p.m.	still	Wolcott St	Grass								Grass fire.
" 22	3:17 p.m.	Tel.	Cortland St	Dump								Dumping ground.
" 22	9:57 p.m.	still	Dickinson St	Trolly								Trolly car.
" 23	10:27 a.m.	Tel.	West Street	Dump								Dumping ground.
" 23	1:17 p.m.	Tel.	Wilbraham Rd	Brush								Brush fire.
" 23	4:14 p.m.	Tel.	Wilbraham Rd	Grass								Needless alarm.
" 23	5:45 p.m.	37	323 Water St	Frame	L. Berinstein	R. Giordanio	Barn	Slight		None		Children and matches.
" 24	2:50 p.m.	79	111 Cass St	Frame	Anna Runsdorf	Eli Bearn	Dwelling	127.10	5,500	125.00	500	Unknown.
" 24	6:31 p.m.	78	False									False alarm.
" 25	7:40 a.m.	Tel.	West St	Dump								Dumping grounds.
" 25	5:10 p.m.	4 I. O.	Indian Orchard	Grass								Grass fire.
" 25	7:39 p.m.	still	55 Hayden Ave	Frame	H. Woods	E. Alexander	Dwelling	Slight		92.00	500	Children and matches.
" 26	11:13 a.m.	Tel.	106 Liberty St	Rubbish								Rubbish fire.
" 26	12:48 p.m.	4631	False									False alarm.
" 26	1:40 p.m.	Tel.	North End Bridge									Careless smoking.
" 26	4:46 p.m.	4631	Plainfield St	Dump								Dumping grounds.
" 26	4:50 p.m.	Tel.	William St	Signboard								Unknown.
" 26	7:46 p.m.	Tel.	L'b'rtynSh'rm'nR	Grass								Grass fire.
" 26	7:49 p.m.	453	112 Tenth St	Frame	H. Goodseit	J. Boice	Dwelling	None		16.50	800	Careless smoking.
" 26	9:38 p.m.	41	96 Sharon St	Frame	B. Finklehof		Dwelling	358.00	5,000	None		Unknown.
" 26	11:49 p.m.	5	292 Main St	Brick	Un'nN'wsp'p'rCo	Spfd. Union	Block			50.00	76,500 Blanket	Careless smoking.
" 27	10:15 a.m.	Tel.	r. 63 Mulberry St.	Aut'm'bile.								Needless alarm.
" 27	11:57 a.m.	Tel.	Main & Bridge Sts.	Trolly								Trolly car.
" 27	4:20 p.m.	Tel.	Off Berkshire St	Frame	Hendee Mfg. Co.	Hendee Mfg. Co.	Stadium	500.00	1,500	None		Unknown.
" 27	4:56 p.m.	Tel.	West St	Dump								Dumping ground.

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DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
July 27	8:25 p.m.	still	Lyman & Chestnut	Trolly.....								Trolly car.
" 28	2:38 p.m.	14	Worthington St..	Brick.....	City of Spfd....	City of Spfd....	School.....					Defective gas fixture.
" 29	12:20 a.m.	Tel.	4 Birnie Ave.....	Frame.....		H. M. Screw Co.						Smoke from hot oil.
" 29	7:23 p.m.	462	72 Washburn St..	Frame.....								Leak from gas pipe.
" 30	8:50 a.m.	still	177 Chestnut St..	Frame.....	Church & Stroud	Annie Burns....	Dwelling....	$325.00	$8,000	$20.00	$2,500	Careless with gasoline.
" 30	12:00 p.m.	Tel.	Out city, E. Long.									Out of city.
" 31	12:04 a.m.	41	132 Ferry St.....	Frame.....	M. Shapiro.....	M. Kimball.....	Store.....	25.00	2,910	75.00	1,000	Unknown.
" 31	7:53 a.m.	still	456 Chestnut St..	Brick.....			Dwelling....					Careless with matches.
" 31	11:22 a.m.	68	368 Orange St....	Frame.....	J. C. Proctor....	Mrs. G. A. Buckle	Dwelling....	15.00	3,000	None		Careless smoking.
" 31	3:21 p.m.	45	1 Boylston St. Ave.	Frame.....	A. Labovitz.....	A. Epstein.....	Dwelling....	256.00	4,000	185.00	700	Unknown.
" 31	7:00 p.m.	still	Locust St.....	Trolly.....								Trolly car.
Aug. 2	1:14 a.m.	95	157 Wilbr'h'm Ave.	Frame.....	A. F. Leonard...	G. Kempkis.....	Dwelling....	127.00	5,000	300.00	1,500	Unknown.
" 2	12:50 p.m.	Tel.	Sumn'r Av & White	Trolly.....								Trolly car.
" 2	9:24 p.m.	Tel.	Orange St.....	Dump.....								Dumping grounds.
" 3	11:28 a.m.	971	113 Eastern Ave..	Frame.....	Mrs. J. Connelly	H. M. Day.....	Dwelling....	25.00	3,000	11.00	500	Heat from gas stove.
" 3	2:05 p.m.	Tel.	Pecousic Ave.....	Dump.....								Dumping grounds.
" 3	10:55 p.m.	Tel.	Cypress & Main Sts	Frame.....								Smoke from chimney.
" 4	3:04 p.m.	Tel.	Parkside Ave.....	Brush.....								Brush fire.
" 5	1:20 a.m.	271	77 Bridge St.....	Frame.....	Max H. Winkler.	Hannah Kilgore..	Shop.....	187.70	12,000	114.97	1,200	Unknown.
" 5	1:39 p.m.	Tel.	39 New St.....	Frame.....	Wells & White...	Wells & White...	Shop.....	Slight		None		Spark from chimney.
" 5	3:35 p.m.	Tel.	835 North St.....	Rubbish...								Rubbish fire.
" 6	1:00 a.m.	795	Cherrelyn Ave....	Frame.....	Morgan & Chatl'y	M. J. O'Neil....	Dwelling....	51.73	500	52.00	500	Unknown.
" 7	8:30 p.m.	still	Mill St.....	Rubbish. .								Rubbish fire.
" 8	9:47 a.m.	Tel.	North End Dump	Dump.....								Dumping ground.
" 10	2:19 p.m.	Tel.	Trafton St.....	Grass.....								Grass fire.
" 10	3:25 p.m.	43 I O	5 Quebec St., I. O.	Frame.....	N. Bosquette....	L. Thaneauf....	Dwelling....	45.00	8,000	None		Unknown.
" 10	3:30 p.m.	Tel.	Franklin St.....	Brush.....								Brush fire.
" 11	12:22 p.m.	89	Cherry Lane.....	Dump.....								Dumping grounds.
" 12	5:20 a.m.	Ther.	983 Main St.....	False.....								False alarm.
" 12	10:46 a.m.	still	Carew St.....	Forest.....								Forest fire.
" 12	12:27 p.m.	38	72 Fremont St....	Frame.....	J. Aronstam.....	M. Bosaria.....	Dwelling....	140.00	3,500	100.00	None	Unknown.
" 12	1:18 p.m.	Tel.	Rear 254 Pearl St.	Grass.....								Grass fire.
" 13	10:45 a.m.	Tel.	Indian Orchard...	Grass.....								Grass fire.
" 13	9:45 p.m.	29 I O	Indian Orchard...	Frame.....	Ludlow Asso....		Dwelling....	Slight				Unknown.
" 14	4:13 p.m.	Tel.	46 James St.....	Frame.....	J. Sullivan.....	T. Gorman.....	Dwelling....					Back draft.
" 14	4:22 p.m.	Tel.	Breck Rd.....	Brush.....								Brush fire.
" 14	7:00 p.m.	Tel.	Breck Rd.....	Brush.....								Brush fire.
" 15	5:19 p.m.	Tel.	Breck Rd.....	Brush.....								Brush fire.
" 15	8:18 p.m.	Tel.	Breck Rd.....	Brush.....								Brush fire.
" 15	8:27 p.m.	341	771 Main St.....	Frame.....	Elizabeth Morse.	A. Ramsey.....	Store.....	71.00	4,500	123.80	350	Unknown.
" 16	12:31 a.m.	Tel.	{ Plumtree Rd...	Frame.....	L. W. Emery....	L. W. Emery....	Barn.....	400.00	None	1,700.00	None	Unknown.
			{ Plumtree Rd...	Frame.....	L. W. Emery....	L. W. Emery....	Dwelling....	1,500.00	500	450.00	None	Exposure loss.

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DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
Aug. 16	9:48 a.m.	84	102 Hickory St...	Frame....	Marjory Ladd...			$20.00	$1,000	None		Gas leak.
" 16	10:10 a.m.	Tel.	Breck Rd.....	Brush.....								Brush fire.
" 16	2:17 p.m.	Tel.	Springfield St....	Brush.....								Brush fire.
" 16	7:48 p.m.	Tel.	Power Ave.....	Frame....								Chimney fire.
" 16	8:16 p.m.	98	Hickory St.....	Grass.....								Grass fire.
" 16	10:13 p.m.	12	Union St.....	Aut'm'bile.				Slight				Gasoline.
" 17	7:14 a.m.	87	343 Water St....	Rubbish...								Rubbish fire.
" 17	9:14 a.m.	Tel.	Hickory St.....	Sawdust...								Sawdust.
" 17	2:35 p.m.	still	Indian Orchard...	Brush.....								Brush fire.
" 17	2:44 p.m.	Tel.	11 Wilcox St.....									Back smoke.
" 18	1:19 a.m.	463	97 Rowland Ave..	Frame....	John E. Murphy.	John E. Murphy.	Barn.....	150.00	1,500	$360.00	$500	Unknown.
" 18	7:35 a.m.	still	North Main St...	Trolly....								Trolly car.
" 18	12:16 p.m.	Tel.	23 Union St.....	Frame....	C. C. Abbe.....		Dwelling....	75.00	7,000	None		Defective flue.
" 18	3:10 p.m.	Tel.	Monmouth St....	Grass.....								Grass fire.
" 18	3:15 p.m.	Tel.	Cottage St.....	Frame.....	Alfred Hubbard..	Alfred Hubbard..	Dwelling....	200.00	None	25.00	None	Probably incendiary.
" 18	8:25 p.m.	Tel.	70 Ferry St.....	Rubbish...								Rubbish fire.
" 18	9:19 p.m.	Tel.	40 Wolcott St....	Frame....	E. P. Sullivan...		Dwelling....	Slight		None		Leaking gas tube.
" 19	12:37 a.m.	41	116 Ferry St.....	Brick.....	H. Alpert.....	Saidi & Coussa..	Store.....	345.00	20,000	2,389.64	4,800	Unknown.
" 19	11:00 a.m.	Tel.	Carew & Prospect	Dump.....								Dumping grounds.
" 19	4:30 p.m.	Tel.	Eddywood Ave...	Grass.....								Grass fire.
" 19	10:32 p.m.	still	South St.....	Rubbish...								Rubbish fire.
" 20	1:15 p.m.	465	54 Abbe Ave.....	Frame....	J. W. Maroney..	C. Broette.....	Dwelling....	45.00	1,800	10.00	None	Clothing near gas stove.
" 20	9:34 p.m.	Tel.	rSt. Mich'l's C'm'y	Brush.....								Brush fire.
" 20	10:40 p.m.	Tel.	470 No. Main St..	Brick.....	IMeyers,LRadn'r	K. Clark.....		10.00	2,000	None		Broken gas jet.
" 20	11:32 p.m.	Tel.	30 Sherman St...	Auto Light								Needless alarm.
" 20	11:40 p.m.	still	Mason & State Sts.	Board walk								Unknown.
" 21	10:30 a.m.	still	Carew St.....	Grass.....								Grass fire.
" 21	12:52 p.m.	Tel.	rSt. Mich'l's C'm'y	Grass.....								Grass fire.
" 21	2:56 p.m.	Tel.	Cottage St.....	Brush.....								Brush fire.
" 21	3:03 p.m.	Tel.	Carew St.....	Brush.....								Brush fire.
" 21	4:22 p.m.	981	False.....									False alarm.
" 21	5:25 p.m.	Tel.	r Camp Ground..	Brush.....								Brush fire.
" 21	5:40 p.m.	still	97 Essex St.....	Frame....			Dwelling....					Chimney fire.
" 21	7:03 p.m.	Tel.	r Camp Ground..	Brush.....								Brush fire.
" 22	6:35 a.m.	still	190 Chestnut St..	Ash barrel.								Hot ashes.
" 22	1:48 p.m.	Tel.	149 Patton St....	Frame....	W. Cordner.....	None	Dwelling....	12.90	1,800	None		Children and matches.
" 22	2:42 p.m.	4621	Newland St.....	Tree.....								Children and matches.
" 22	2:48 p.m.	still	South St.....	Grass.....								Grass fire.
" 22	2:55 p.m.	still	Armory St.....	Grass.....								Grass fire.
" 22	7:28 p.m.	462	133 Lowell St....	Frame...	H. Sladofsky....	H. Sladofsky....	Dwelling....	75.00	2,500	7.00	500	Accident with candle.
" 24	1:48 a.m.	68	False.....									False alarm.
" 24	4:06 p.m.	Tel.	Allen & Sumner Av	Brush, t'b'r	R. P. Richards...							Brush fire.
" 24	4:17 p.m.	Tel.	Wilbraham Rd...	Brush.....								Brush fire.
" 25	2:11 p.m.	36	119–121 Howard St	Frame....	L. Albano.....	J. Albano.....	Barn.....	80.00	200	None		Unknown.

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DETAILED STATEMENT OF FIRES—Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
Aug. 25	2:55 p.m.	Tel.	Belvidere St.....	Grass.....								Grass fire.
" 25	3:05 p.m.	962	601 Union St....	Frame....	M. Riley.....		Dwelling....	$23.00	$3,500	None		Careless workman.
" 26	12:47 a.m.	452	80 Congress St...	Frame....	P. Tuber.....	None.....	Dwelling....	700.00	6,000	None		Incendiary.
" 26	10:15 a.m.	still	Wason Av, Pl'nfi'ld	Grass.....								Grass fire.
" 26	10:34 a.m.	still	Federal & Pearl..	Stone.....			Barn.....					Back smoke.
" 26	12:11 p.m.	Tel.	Logan & Hickory.	Grass.....								Grass fire.
" 26	1:35 p.m.	35 I O	66–68 Holly, I. O.	Frame....	O. A. LaRiviere..	W. Trombly... A. E. Jones... N. E. Whelen.	Dwelling....	1,173.65	5,000	$205.00 85.65 123.50	$500 500 800	Unknown.
" 26	4:07 p.m.	Tel.	Albany St.....	Dump....								Dumping grounds.
" 26	5:49 p.m.	Tel.	West St.....	Dump.....								Dumping grounds.
" 27	10:15 a.m.	Tel.	Wason Ave.....	L'c'm'tive..								Locomotive.
" 27	4:43 p.m.	921	36 Oak Grove Ave	Frame....	Mrs. G P Maynard	B. H. Rix.....	Barn.....	58.00	300	25.00	None	Lightning.
" 28	1:32 a.m.	95	173 Wilbraham Av	Frame....	Mrs. W. Behnken	E. T. Gaskell....	Dwelling....	15.80	7,500	41.45	500	Accident with lamp.
" 28	12:40 p.m.	still	87 Water St.....	Awning...	Frost & Ashton..	Frost & Ashton..		None		Slight		Careless smoking.
" 28	6:33 p.m.	Tel.	West St.....	Dump....								Dumping grounds.
" 28	6:47 p.m.	Tel.	Railroad Row...	Aut'm'bile.		J. J. McCarthy..						Back fire.
" 29	1:10 a.m.	41	Rear 177 Main St.	Rubbish...								Careless smoking.
" 29	5:12 a.m.	Tel.	41 Cherryvale Ave	Frame....	Bessie F. Likens.	H. D. Likens....	Dwelling....	59.35	3,500	4.00	500	Curtain and gas jet.
" 29	11:25 a.m.	still	Dickinson St.....	Trolly.....								Trolly car.
" 29	12:52 p.m.	Tel.	3 East Court St...	Brick.....								Grease in oven.
" 31	2:00 a.m.	still	113 Howard St...	Frame....			Dwelling....					Hotwaterenteringsewer.
" 31	10:52 a.m.	451	Rear 114 Ferry St.	Frame....	H. Alport.....	Eli Wolf.....	Dwelling....					Children and matches.
Sept. 1	2:41 p.m.	Tel.	140 Chestnut St..	Brick.....	Hampd'n H't'l Co	Hotel Kimball...	Hotel.....	870.46	512,500	None		Grease from range.
" 1	2:47 p.m.	Tel.	State&CourtHoPl	Brick.....		Court Sq. Hotel.	Hotel.....	None		None		Back smoke.
" 1	7:45 p.m.	Tel.	Middlesex.....	Brush.....								Brush fire.
" 3	12:34 p.m.	still	475 Union St....	Frame....	W. Lathrop.....	J. D. Smith.....	Dwelling....	50.00	3,000	None		Child and match.
" 5	2:42 p.m.	352	177 William St...	Frame....			Dwelling....					Defective gas meter.
" 6	11:28 a.m.	Tel.	c S'nf'rd & Market	Aut'm'bile.	E. D. Francis....	E. D. Francis....						Defective insulation.
" 6	7:06 p.m.	34	711 Main St.....	Awning...	A. L. Lucas.....	Jennie Liggons...		None		Slight		Gas lamp.
" 6	7:50 p.m.	27	False.....									False alarm.
" 7	12:45 a.m.	35	17 Crossett Ave..	Frame....	L. Nemirove....	L. Nemirove....	Store.....	300.00	3,000	150.00	500	Careless smoking.
" 7	12:45 a.m.	21	17 Crossett Ave..									Needless alarm.
" 7	12:45 a.m.	214	17 Crossett Ave..									Needless alarm.
" 7	8:00 p.m.	971	705 Union St....	Frame....	C. S. Fisk.....	R. Morse.....	Dwelling....	80.00	3,000	None		Incendiary.
" 8	5:30 p.m.	26	Main St.....	Trolly.....								Trolly car.
" 8	7:37 p.m.	453	102 Tenth St....	Frame....	H. Zirkin.....	T. Schulman....	Dwelling....	20.00	7,500	50.00	500	Candle overturned.
" 9	6:00 p.m.	25	216 Dwight St...	Brick.....	Morgan Estate..		Factory.....	None		Slight		Electric motor.
" 10	2:15 a.m.	42	128–132 Main St.	Frame....	M. D. Goetting..	Mrs. J. Kane.. P. Halon.....	Dwelling....	1,087.00	19,762	25.00 110.00	None 1,500	Unknown.

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DETAILED STATEMENT OF FIRES — Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
Sept. 10	12:32 p.m.	9651	Fiske Ave.	Grass								Grass fire.
" 10	4:47 p.m.	41	14 Ferry St.	Brick	Ida Steinberg.		Dw'g&store.	$18.00	$30,000	Slight		Unknown.
" 11	3:03 p.m.	Tel.	c Main & Franklin	Rubbish								Rubbish.
" 11	6:20 p.m.	Tel.	Orange St.	Dump								Dumping grounds.
" 12	1:48 p.m.	Tel.	Main & Margaret	Aut'm'bile.								Gasoline.
" 12	3:00 p.m.	Tel.	S'mn'rAv&B'm'nt	Frame			Dwelling.					Smoke.
" 12	3:39 p.m.	Tel.	M'ss'ch's'tts Ave.	Dump								Dumping ground.
" 14	6:18 a.m.	Ther.	983 Main St.	Brick	Bemis & Call.	Bemis & Call.	Factory					Defective thermostat.
" 14	6:45 a.m.	61.O.	Indian Orchard.	False								False alarm.
" 14	11:17 p.m.	621	308½ Belmont Ave	Frame	M. Bennett	J. Goldstick	Store	123.50	800	$175.00	$1,000	Unknown.
" 15	2:36 a.m.	36	289 Water St.	Brick	J. Aronstam.	A. L. Nadler	Dw'g& store.	995.50	3,000	961.24	1,450	Unknown.
						V. Fiore				50.00	None	
			291-293 Water St.	Brick	J. Aronstam.		Dw'g& store.	50.00	5,000			Exposure loss.
" 15	6:35 p.m.	still	273 No. Main St.	Brick	W. J. Hyland		Dwelling					Overheated furnace.
" 15	11:02 p.m.	451	Needless alarm									Smoke from chimney.
" 16	10:02 a.m.	Tel.	7 Pearl St.	Brick	HarriettSCBirnie	HarriettSCBirnie	Dwelling	Slight		None		Hot ashes in barrel.
" 16	1:22 p.m.	Tel.	52 Mountainview.	Frame			Dwelling					Needless alarm.
" 16	6:58 p.m.	still	Birnie Ave.	Hollow tree								Unknown.
" 17	1:14 p.m.	Tel.	Sharon St.	False								False alarm.
" 17	9:10 p.m.	2	Rear 274Main St.	Rubbish								Rubbish.
" 18	2:12 a.m.	421	36 Essex St.	Brick	R. Meyer.	August Laforet.	Factory	846.00	4,100	150.00	200	Unknown.
						F'n'rCh'lMfgCo.				50.00	None	
						William Howlett.						
" 18	7:25 p.m.	Tel.	8 Princeton St.	Frame	G. Carey	J. S. Brown	Dwelling	85.00	5,500	Slight		Unknown.
						E. T. Prindle				5.00	500	
" 19	10:35 a.m.	Tel.	22 Brookline Ave.	Frame	L. Simcovitz	L. Simcovitz	Dwelling	125.00	5,000	275.00	2,000	Unknown.
" 23	1:38 p.m.	Tel.	c State & Chestnut	Brick			Block					Smoke from chimney.
" 24	1:20 a.m.	still	Union Depot	Stone		B & A waiting rm	Depot					Careless smoking.
" 24	8:34 a.m.	4651	False									False alarm.
" 24	2:22 p.m.	Tel.	579-581 Main St.	Brick	J. Freedman	Bearg Bros.	Dw'g& store.	250.00	19,000	92.96	4,000	Unknown.
" 24	7:28 p.m.	still	Mason St.	Tri-car								Careless with gasoline.
" 27	11:22 a.m.	931	Boston Rd.	Brick	City of Spfd.	City Almshouse.	Almshouse					Rubbish.
" 27	2:09 p.m.	14	503 W'rth'gt'n St.	Brick	William E. Cross		Block					Unknown.
" 28	9:55 a.m.	751	128 Bond St.	Frame	L. Klener.	Behan.	Dwelling	15.00	8,000	None		No cap in flue.
" 28	1:07 p.m.	Tel.	Allen St.	Brush								Brush fire.
" 28	4:39 p.m.	Tel.	Off Bay St.	Cordwood								Unknown.
" 28	10:10 p.m.	Tel.	428 W'rth'gt'n St.	Awning	Sadler.	E. Kitsopanidis.						Careless with match.
" 29	6:29 p.m.	971	632 Union St.	Frame	Mrs. W. Behnken	Mrs. C Knowlton	Dwelling	17.00	9,000	None		Heat from gas stove.
" 29	8:22 p.m.	Tel.	Stafford St.	Dump								Dumping ground.
" 30	9:03 p.m.	28	73 Vernon St.	Brick	Mrs. J. Lincoln.	Mrs. Cora Stetson		Slight		Slight		Defective gas fixture.

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DETAILED STATEMENT OF FIRES — Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings. Loss on	Buildings. Ins. on	Contents. Loss on	Contents. Ins. on	Cause and Circumstances of Fire.
Oct. 1	11:50 a.m.	still	78 Pynchon St.	Brick		Am Cl'n's& Dy'rs	Block					Defective boiler.
" 1	1:50 p.m.	still	445 Armory St.	Frame	J. J. Carmody	Fallon Bros.	Store					Unknown.
" 1	8:38 p.m.	Tel.	45 Water St.	Brick			Dwelling	Slight		Slight		Heat from boiler.
" 2	11:35 p.m.	Tel.	145 Bridge St.	Brick		S. & S. Laundry.	Block					Gas b'rn'g in ir'n'g mach
" 4	6:31 p.m.	97	127 Cass St	Frame	Anna Runsdorf.	H. Chortorisky M. Cohen.	Dwelling	$100.00	$5,000	$325.00 40.00	$800 800	Unknown.
" 4	8:29 p.m.	352	620 Main St.	Brick		Yale Lunch	Monitor					Careless with gas.
" 5	12:07 p.m.	still	Indian Orchard.	Trolly								Trolly car.
" 5	12:45 p.m.	Tel.	Allen St.	Brush								Brush fire.
" 5	6:20 p.m.	still	Dickinson St.	Trolly								Trolly car.
" 7	5:20 p.m.	still	Medford St.	Grass								Grass fire.
" 7	7:27 p.m.	98	Hickory St.	Bonfire	Int Y M C A Coll.							Bonfire.
" 9	12:01 a m.	981	False									False alarm.
" 10	5:09 p.m.	Tel.	r 369 Chestnut St.	Rubbish								Rubbish.
" 10	7:45 p.m.	still	North & Essex Sts.	Le'v's, b'x's								Leaves and boxes.
" 10	10:27 p.m.	421	8 Auburn St.	Frame			Monitor					Careless smoking.
" 13	2:41 p.m.	Tel.	183 State St.	N'dl'ss al'm								Escaping steam.
" 14	12:39 a.m.	57	67 Pease St.	Frame	L. E. Pease	F. Surprise John Owen Co. A.W. Cornelius	Barn	1,000.00	1,000	450.00 48.00 125.00	4,500 300 500	Unknown.
" 14	10:21 a.m.	Tel.	57 Greenwood St.	Frame		L. Sedersky	Dwelling	90.00	9,500	35.00	500	Unknown.
" 14	10:40 a.m.	Tel.	152–154 State St.	Aut'm'bile.	T. E. King							Gasoline.
" 14	2:30 p.m.	35 I O	155½ Main, I. O.	Frame	M. H. Lyons		Dwelling					Chimney fire.
" 14	4:10 p.m.	462	153 Plainfield St.	Brick	Griffin Bros.	Griffin Bros.	Store	13.00	5,000	None		Careless smoking.
" 14	5:36 p.m.	still	Grover St.	Rubbish								Rubbish.
" 14	6:21 p.m.	74	14 Prospect St.	Frame	T. E. Quinn.	F. L. Plant.	Dwelling	None		31.65	1,000	Unknown.
" 14	10:55 p.m.	25 I O	155½ Main, I. O.	Frame	M. H. Lyons.	J. F. Flebotte.	Dwelling	5.00	4,000	5.00	500	Unknown.
" 15	4:10 p.m.	Tel.	Indian Orchard.	Brush								Brush fire.
" 15	4:12 p.m.	Tel.	45 Thomas St.	Frame	Sarah Simonoff.	Sarah Simonoff.	Dwelling	5.00	6,000	None		Pan of grease.
" 16	7:49 a.m.	Tel.	57 Warner St.	Frame			Dwelling					Careless with turpentine.
" 16	12:55 p.m.	still	Upper Carew St.	Brush								Brush fire.
" 16	1:28 p.m.	still	Carew St.	Grass								Grass fire.
" 17	7:45 p.m.	Tel.	Chapin Terrace.	Grass								Grass fire.
" 17	9:44 p.m.	4651	False									False alarm.
" 17	10:07 p.m.	14	7 Summer St.	Frame	Taylor R'lty Tr'st		Barn	50.00	None	None		Unknown.
" 18	6:57 a.m.	Tel.	rear 152–154 State	Aut'm'bile.	T. E. King					400.00	600	Gasoline.
" 18	10:14 a.m.	still	Plainfield St.	Trolly								Trolly car.
" 18	2:30 p.m.	still	Off Carew St.	Brush								Brush fire.
" 20	7:13 a.m.	Tel.	29 Sanford St.	Brick			Dwelling					Oil stove.
" 20	12:19 p.m.	794	304 Armory St.	Frame	Andrew O'Neil.	H. J. Gould.	Dwelling	15.00	4,000	None		Child and matches.
" 21	5:11 p.m.	81	164 Walnut St.	Frame	Alois Fuerst.	William Clare.	Dwelling	175.00	5,000	60.65	1,000	Unknown.
" 21	5:37 p.m.	27 I O	Indian Orchard.	Frame			Dwelling					Chimney fire.
" 22	10:16 a.m.	still	Pl'nfi'ld & M're Av	Grass								Grass fire.
" 22	3:25 p.m.	Tel.	74 Main St.	N'dl'ss al'm								Smoke from oiling floor.

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DETAILED STATEMENT OF FIRES — Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
Oct. 22	4:05 p.m.	Tel.	145 State St.....	Frame....			Store.....					Back smoke.
" 22	7:34 p.m.	Tel.	37 Norfolk St....	Frame....	H. M. Henion...	H. M. Henion...	Dwelling....	$86.00	$3,500	$35.00	$1,200	Careless with match.
" 23	11:45 a.m.	8	323 W'rth'gt'n St.	Frame....	Spfd Breweries Co	E. Bugbee.....	Dwelling....	165.00	10,000	86.50	1,250	Unknown.
" 23	2:45 p.m.	851	491 Hancock St..	Frame....	A. F. McQuade..	A. F. McQuade..	Barn.....	175.00	1,200	368.42	5,000	Boiling tar.
	2:50 p.m.	89										
" 23	4:25 p.m.	59	St. James Ave....	Brush.....								Brush fire.
" 23	5:35 p.m.	Tel.	215 W'rth'gt'n St.	Brick.....		Globe Hotel.....	Hotel.....					Gas leak and grease.
" 23	7:45 p.m.	still	122 Cedar St.....	Frame....	E. B. Pike.....	E. B. Pike.....	Dwelling....	28.50	3,000	None		Spontaneous comb'tion.
" 24	1:05 p.m.	Tel.	549 Chestnut St..	Leaves....								Leaves.
" 24	5:59 p.m.	771	False.....									False alarm.
" 26	6:08 p.m.	Tel.	21 Merwin St....	Frame....	K. S. Dunn.....	HSSawyer & wife	Dwelling....	35.00	5,000	69.50	1,000	Unknown.
" 26	7:09 p.m.	981	Hickory St.....	Frame....		C'ns'lid't'd Ice Co	Icehouse....	587.00	3,000	50.00	600	Unknown.
" 27	1:22 p.m.	Tel.	Everett St.....	Rubbish...								Rubbish.
" 27	6:02 p.m.	Tel.	West St.....	Dump....								Dumping ground.
						Jacob Blaustein..				2,828.83	27,300	
" 28	7:54 a.m.	24	14 Pynchon St...	Brick.....	H. G'dm'n Waters	C. R. Merry....	Block.....	9,000.00	41,500	672.89	3,500	Unknown.
						D N Buckley & Co.				1,000.00	10,000	
" 28	10:07 a.m.	Tel.	72 Cherry St.....	Frame....								Chimey fire.
" 28	10:45 a.m.	Tel.	93 Pine St.....	Frame....	G. Gaudette....	Margaret Aiken.	Dwelling....	None		20.00	None	Candles around bier.
" 28	5:20 p.m.	Tel.	West St.....	Dump.....								Dumping ground.
" 29	2:55 p.m.	Tel.	621 Main St.....	Brick.....			Block.....					Back smoke.
" 29	10:14 p.m.	96	178 Quincy St....	Frame....								Needless alarm.
" 30	11:38 a.m.	Tel.	Summer St.....	Kettle of tar								Boiling tar.
" 30	2:20 p.m.	Tel.	Ingersoll Grove..	Dump....								Dumping ground.
" 30	2:21 p.m.	Tel.	Denver St.....	Frame....			Dwelling....					Chimney fire.
" 30	5:25 p.m.	Tel.	Clantoy St.....	Brush.....								Brush fire.
" 30	7:19 p.m.	Tel.	581 Main St.....	Brick.....			Dw'g& store.					Unknown.
" 31	11:45 a.m.	Tel.	Summer St.....	Coal pocket	S. R. Carlisle....							Rekindling of former fire.
" 31	1:00 p.m.	95	87 Wilbraham Av.	Frame....			Dwelling....					Careless with kerosene.
" 31	1:04 p.m.	still	Liberty St.....	Leaves....								Leaves.
" 31	1:19 p.m.	still	Armory St.....	Brush								Brush fire.
" 31	5:59 p.m.	Tel.	West St.....	Dump....								Dumping ground.
" 31	7:19 p.m.	795	Carew St.....	Bonfire....								Bonfire.
" 31	7:45 p.m.	675	False.....									False alarm.
" 31	7:46 p.m.	Tel.	Governor St.....	Bonfire....								Bonfire.
" 31	7:55 p.m.	still	Dickinson St.....	Bonfire....								Bonfire.
" 31	8:24 p.m.	Tel.	Van Horn St.....	Brush.....								Brush fire.
" 31	8:26 p.m.	Tel.	Dickinson St.....	Bonfire....								Bonfire.
" 31	8:47 p.m.	87	False.....									False alarm.
" 31	9:35 p.m.	Tel.	Main & Patton Sts.	Rubbish...								Rubbish.
" 31	9:41 p.m.	85	False.....									False alarm.
" 31	9:54 p.m.	Tel.	Cedar & Walnut Sts	Bonfire....								Bonfire.
" 31	10:06 p.m.	Tel.	Melrose St.....	Bonfire....								Bonfire.
" 31	11:01 p.m.	Tel.	Cl'v'l'r.d & Liberty	Bonfire....								Bonfire.

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DETAILED STATEMENT OF FIRES — Continued.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings.		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
Nov. 1	5:11 a.m.	251	161 Chestnut St..	Frame....	Chapin Estate...	None.....	Barn.....					Incendiary.
" 1	3:22 p.m.	Tel.	Liberty St.....	Brush.....								Brush fire.
" 1	3:28 p.m.	Tel.	Albemarle Ave...	Brush.....								Brush fire.
" 1	6:10 p.m.	Tel.	Hampden & Main	Gasoline...								Gasoline in street.
" 1	7:11 p.m.	Tel.	Camp Ground....	Leaves....								Leaves.
" 2	11:00 a.m.	Tel.	Albany St.....	Dump....								Dumping ground.
" 2	2:38 p.m.	Tel.	517 Main St.....	Rubbish...								Rubbish.
" 2	3:30 p.m.	Tel.	Parkside Ave....	Brush.....								Brush fire.
" 2	7:06 p.m.	Tel.	State St.....	Aut'm'bile.	Blue Rib G'r'ge Co			$750.00	$800	None		Back fire.
" 3	1:50 p.m.	Tel.	Clantoy St.....	Brush.....								Brush fire.
" 3	3:52 p.m.	89	False.....									False alarm.
" 4	7:28 p.m.	Tel.	285 Main St.....	Brick.....		H. Daniel.....	Dw'g&store	None		$2.00	$2,000	Careless smoking.
" 4	9:30 p.m.	Tel.	Albany St.....	Dump....								Dumping ground.
" 5	2:15 p.m.	Tel.	Parker St., I. O..	Brush.....								Brush fire.
" 5	4:55 p.m.	Tel.	Clantoy St.....	Brush.....								Brush fire.
" 5	4:57 p.m.	Tel.	58 Garfield St....	Aut'mobile	F. E. Ward.....			None		600.00	2,500	Back fire.
" 6	1:20 p.m.	Tel.	Off Armory St...	Brush.....								Brush fire.
" 6	1:40 p.m.	Tel.	Westernview St..	Dump....								Dumping ground.
" 6	5:34 p.m.	561	Ingersoll Grove..	Leaves....								Leaves.
" 6	5:43 p.m.	644	False.....									False alarm.
" 7	9:37 a.m.	still	45 Portland St...	Frame....	L. Fennessey....	G. L. Parsons...	Dwelling....	18.00	4,000	None		Plumber's torch.
" 7	9:10 p.m.	361	Worcester St., I. O.	Brick.....	Fiberloid Co....	Fiberloid Co....	Factory.....	10,356.15	1,500,000		Blanket	Unknown.
" 9	1:00 a.m.	Tel.	Out of city.....	Aut'm'bile.								Out of city.
" 10	7:27 a.m.	Tel.	147 Summer St...	Frame....	C.B.U. Dartalacci	C.B.U. Dartalacci		None		Slight		Unknown.
" 10	10:08 p.m.	still	130 Birnie Ave...	Rubbish...		Spfd M't'l B'dy Co						Spontaneous comb'tion.
" 12	7:20 a.m.	23	Market St.....	Brick.....	Taylor & Murphy	John F. Sullivan.	Block.....	676.86	31,500	100.00	1,500	Unknown.
						R. H. Spare, Inc..				149.90	1,700	
" 12	11:07 a.m.	still	Armory St.....	Brush.....								Brush fire.
" 12	12:12 p.m.	Tel.	Long Hill St.....	N'dl'sal'm								Needless alarm.
" 12	3:38 p.m.	Tel.	Liberty St.....	Dump....								Dumping ground.
" 12	9:20 p.m.	still	Round Hill.....	Tree.....	J. H Williams Est.							Unknown.
" 13	2:35 p.m.	Tel.	Boston Rd, I. O..	Frame....	Hannah Brook...	Hannah Brook...	Barn.....	2,500.00	1,500	1,000.00	None	Unknown.
" 13	4:55 p.m.	Tel.	Parker St.....	Aut'm'bile.	J. L. Legein.....			1,000.00	1,000			Gasoline.
" 14	2:30 a.m.	351	458 Mill St.....	Frame....	A. Labrie.....	H.J.Lamoureaux.	Barn.....	1,950.00	3,100	550.00	1,200	Unknown.
" 14	3:05 a.m.	Tel.	76 Spruceland Ave	Frame....	E. M. Goodell...	E. M. Goodell...	Dwelling....	535.50	6,000	20.00	3,000	Spontaneous comb'tion.
" 14	5:55 p.m.	Tel.	58 Harrison Ave..	Brick.....	Morgan Estate..	W. J. Eldred....	Factory.....	None		Slight		Electric motor.
" 15	4:09 p.m.	37	110 Margaret St..	Frame....	Felice Rachelle..	Felice Rachelle..	Dwelling....	12.00	2,400	57.25	500	Unknown.
" 15	5:23 p.m.	743	False.....									False alarm.
" 16	7:34 p.m.	Tel.	Toll Bridge.....	False.....								False alarm.
" 18	10:14 a.m.	971	Tyler St.....	Kettle of tar								Kettle of tar.
" 20	9:24 a.m.	Tel.	526 W'rth'gt'n St.	Brick.....			Block.....					Careless with gasoline.
" 20	1:37 p.m.	A D T	662 No. Main St..	Brick.....	Nat. Equip. Co..	Nat. Equip. Co..	Factory.....					Blower pipe.
" 21	6:47 a.m.	453	61 Greenwood St.	Brick.....	Felix Runsdorf..	J. Rimsky.....	Store.....	915.00	1,500	800.00	None	Unknown.
	6:49 a.m.	42				Jordan.....						

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DETAILED STATEMENT OF FIRES — Concluded.

Date.	Time.	Box.	Location.	Description of Building.	Owner.	Occupant.	How Occupied.	Buildings		Contents.		Cause and Circumstances of Fire.
								Loss on	Ins. on	Loss on	Ins. on	
			63 Greenwood St.	Frame....	Felix Runsdorf...	Felix Runsdorf S. Lopedes....	Dwelling....	$1,070.00	$3,500	$729.33 514.50	$1,550 700	Exposure loss.
Nov. 21	6:49 a.m.	42	57–59 Greenwood	Frame....	L. Saderewsky...	S. Hurvitz.... J. Aronson.... I. Kletsky....	Dwelling....	1,531.00	9,500	10.00 325.00 60.00	None 1,200 500	Exposure loss.
" 21	7:48 p.m.	Tel.	Main St.....	Trolly.....								Trolly car.
" 22	3:15 a.m.	still	Birnie Ave.....	Frame....	USSpring Bed Co.	USSpring Bed Co.	Factory....					Escaping steam.
" 22	8:23 a.m.	Tel.	331 Liberty St...	Frame....	Tait Coal Co....	Tait Coal Co....	Charcoal sh'd					Boys.
" 22	1:36 p.m.	Tel.	386 Main St.....	Brick.....		B's 5 & 50c store.	Block.....					Needless alarm.
" 22	9:00 p.m.	still	105 Greenwood St	Frame....	Mrs.M. Celan...	T. Lewis.....	Dwelling....	95.00	5,000	30.00	None	Unknown.
" 23	11:47 a.m.	421	10 Auburn St....	B'rn'g meat								Burning meat.
" 24	4:05 a.m.	Ther.	Birnie Ave.....	Frame....	USSpring Bed Co.	USSpring Bed Co.	Factory.....					Defective thermostat.
" 24	9:46 p.m.	Tel.	Berkshire St.....	Aut'm'bile.								Needless alarm.
" 25	10:40 a.m.	still	Indian Orchard...	Frame....			Dwelling....					Chimney fire.
" 25	4:15 p.m.	Tel.	Worcester St., I. O.	Aut'm'bile.	J. W. Chesebro..			500.00	500	None		Gasoline.
" 26	5:50 p.m.	still	Pascal St., I. O...	Brush.....								Brush fire.
" 25	11:12 p.m.	75	116 Carew St....	Frame....	E. P. Kendrick..	N E Tel & Tel Co.. J. V. Burke.....	Barn.....	500.00	500	1,126.18 490.75	None 900	Unknown.
" 26	8:05 a.m.	still	Spfd. & Hamburg	Pine tree..								Unknown.
" 26	12:49 p.m.	Tel.	85 Ingersoll Grove.	Fence.....								Unknown.
" 26	4:55 p.m.	Tel.	Massachusetts Av	Dump....								Dumping ground.
" 27	6:09 a.m.	4621	False.....									False alarm.
" 27	10:36 a.m.	78	11 Linden St....	Frame....	Samu'l Slonimsky	Samu'l Slonimsky	Dwelling....	35.00	4,500	40.00	700	Unknown.
" 27	5:00 p.m.	Tel.	Camp Ground...	Frame....	A. H. Howard...	A. H. Howard...	Cottage.....	None		15.00	None	Lamp and curtain.
" 27	7:57 p.m.	still	17 Wilbraham Rd.	Brick.....		Labine Bros....	Block.....					Smoking furnace.
" 27	7:57 p.m.	452	663 North St.....	Brick.....	M. Askinass.....	B. Bergman.....	Store.....	35.00	9,000	15.00	500	Unknown.
" 29	1:08 p.m.	still	20 Jefferson Ave..	Frame....			Dwelling....					Back draft.
" 29	1:40 p.m.	Tel.	Indian Orchard...	Aut'm'bile.	G. C. A. Fuller..	Grant Crofut....		None		10.00	None	Back fire.
" 29	10:45 p.m.	421	74 Main St.....	Brick.....	W. J. Mills.....	Fleming Bros....	Store.....	150.00	6,000	530.00	3,000	Unknown.

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ALARMS ANSWERED

Engine Co. No. 1	168
Engine Co. No. 2	218
Engine Co. No. 3	68
Engine Co. No. 4	142
Engine Co. No. 5	78
Engine Co. No. 6	103
Engine Co. No. 8	127
Engine Co. No. 9	116
Hose Co. No. 7	203
Hose Co. No. 10	151
Hose Co. No. 11	73
Hose Co. No. 12	106
Hose Co. No. 13	84
Truck Co. No. 1	125
Truck Co. No. 3	47
Truck Co. No. 6	84
Truck Co. No. 8	117
Truck Co. No. 10	159
Squad A	362
Squad B	420

CAUSES OF FIRES AND ALARMS

Accident with candle	3
Accident with lamp	7
Accident with lantern	1
Automobile	3
Back draft	20
Back fire	4
Bonfire	33
Boys	2
Broken gas pipe	3
Broken lamp	1

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Broken sprinkler head	2
Blower pipe	1
Burning meat	2
Brush, forest, grass, leaves	210
Candle and curtain	1
Candles around bier	1
Careless smoking	39
Careless with charcoal	1
Careless with gas	1
Careless with gasoline	7
Careless with kerosene	1
Careless with matches	17
Careless with torch	1
Careless with turpentine	1
Careless workman	3
Christmas tree	1
Children and matches	28
Chimney fires	54
Clothing near stove	4
Curtain and gas fixture	6
Decorations and gas jet	1
Defective boiler	1
Defective chimney	7
Defective fireplace	3
Defective flue	3
Defective gas fixture	4
Defective gas meter	1
Defective heater	1
Defective insulation	1
Defective thermostat	6
Drunkenness	1
Drying plaster	8
Dumping grounds	66
Electric flatiron	1
Electric light and awning	1
Electric motor	3
Electric wires	2
Escaping steam	2
Explosion of boiler	1
Explosion of gas	1
Explosion of heater	1

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False alarms	43
Fireworks	11
Food burning in gas oven	1
Friction	1
Gas burning in ironing machine	1
Gas burning in press	1
Gas heater	1
Gas lamp	1
Gas lamp and awning	1
Gas leak and grease	1
Gasoline	26
Grease flue	2
Grease in oven	1
Heat from boiler	1
Heat from gas stove	3
Heat from oven	1
Heat from stove	1
Heater in car	1
Hot ashes	11
Hot charcoal	1
Hot lacquer	1
Hot water entering sewer	1
Incendiary	7
Kettle of tar	5
Lamp and curtain	1
Lantern warming fruit	1
Leak in gas pipe	4
Leak in gas tube	1
Lightning	1
Lime	2
Live wire	1
Malicious mischief	1
Matches in car	1
Needless alarms	35
No cap in flue	1
Oil heater	6
Oil lamp	1
Out of city	5
Overheated boiler	1
Overheated furnace	5
Overheated stovepipe	2

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Pan of grease	5
Plumber's torch	1
Pouring molten metal	1
Prest-O-Lite tank	1
Rats	1
Rekindling of former fire	5
Robber set fire at gas meter	1
Rubbish	27
Rubbish chute	1
Rubbish near stove	1
Sawdust	1
Smoke from chimney	3
Smoke from furnace	1
Smoke from hot oil	1
Smoke from oiling floor	1
Soot in stovepipe	1
Sparks from boiler	2
Sparks from chimney	5
Spark from picker	2
Sparks from locomotive	8
Spark from stove	1
Spontaneous combustion	5
Steam from press board	1
Steel chips	2
Supposed incendiary	2
Thawing water pipe	2
Trolly car	41
Unknown	144
Total	1,033

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COMPARATIVE STATEMENT

OF LOSSES BY FIRE AND ALARMS OF FIRE SINCE 1870.

From	Dec.	1,	1870,	to	Dec.	1,	1871	$199,317.00	21
"	"	"	1871,	"	"	"	1872	106,425.00	22
"	"	"	1872,	"	"	"	1873	191,107.00	48
"	"	"	1873,	"	"	"	1874	285,822.02	38
"	"	"	1874,	"	"	"	1875	476,961.45	57
"	"	"	1875,	"	"	"	1876	120,824.00	53
"	"	"	1876,	"	"	"	1877	74,071.00	32
"	"	"	1877,	"	"	"	1878	49,552.00	39
"	"	"	1878,	"	"	"	1879	36,706.70	33
"	"	"	1879,	"	"	"	1880	8,661.35	27
"	"	"	1880,	"	"	"	1881	92,352.82	61
"	"	"	1881,	"	"	"	1882	60,232.06	73
"	"	"	1882,	"	"	"	1883	34,969.11	46
"	"	"	1883,	"	"	"	1884	30,755.34	54
"	"	"	1884,	"	"	"	1885	39,241.91	48
"	"	"	1885,	"	"	"	1886	33,584.00	61
"	"	"	1886,	"	"	"	1887	64,930.29	86
"	"	"	1887,	"	"	"	1888	177,577.19	79
"	"	"	1888,	"	"	"	1889	52,085.19	79
"	"	"	1889,	"	"	"	1890	33,864.99	92
"	"	"	1890,	"	"	"	1891	201,126.00	141
"	"	"	1891,	"	"	"	1892	125,243.36	140
"	"	"	1892,	"	"	"	1893	397,531.03	147
"	"	"	1893,	"	"	"	1894	57,732.41	125
"	"	"	1894,	"	"	"	1895	43,311.74	128
"	"	"	1895,	"	"	"	1896	57,206.60	141
"	"	"	1896,	"	"	"	1897	55,460.89	157
"	"	"	1897,	"	"	"	1898	235,981.79	171
"	"	"	1898,	"	"	"	1899	94,694.02	213
"	"	"	1899,	"	"	"	1900	62,157.70	222
"	"	"	1900,	"	"	"	1901	96,409.25	236
"	"	"	1901,	"	"	"	1902	149,931.33	248
"	"	"	1902,	"	"	"	1903	30,316.69	311
"	"	"	1903,	"	"	"	1904	68,332.86	385
"	"	"	1904,	"	"	"	1905	208,451.58	424
"	"	"	1905,	"	"	"	1906	105,771.28	403
"	"	"	1906,	"	"	"	1907	535,549.74	498
"	"	"	1907,	"	"	"	1908	88,690.38	530
"	"	"	1908,	"	"	"	1909	75,701.81	675
"	"	"	1909,	"	"	"	1910	133,329.47	710
"	"	"	1910,	"	"	"	1911	397,714.08	729
"	"	"	1911,	"	"	"	1912	166,210.66	829
"	"	"	1912,	"	"	"	1913	264,165.72	1,033

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FIRE ALARM TELEGRAPH

Location of Signal Boxes.

Keys on all boxes.
Box 12.—Union and School.
Box 123.*—Smith & Wesson.
Box 125.*—Fisk & Walker Mfg Co.
Box 13.—State and Spring.
Box 135.*—United States Armory.
Box 14.—Spring and Worthington.
Box 142.—Pearl and Byers.
Box 15.—Salem and Mattoon.
Box 152.—Chestnut, opposite Bridge.
Box 16.—Worthington and Kibbe avenue.
Box 17.—State and Walnut.
Box 18.—State and Oak.
Box 182.*—National Papeterie Co.
Box 19.—Union and Mulberry.
Box 192.—Union and Ridgewood terrace.
Box 2.—Main, opposite Taylor.
Box 21.—State and Main.
Box 212.*—Court Square Hotel.
Box 213.*—Tapley building.
Box 214.—Willow and Cross.
Box 23.—Sanford and Market.
Box 231.—Main and Elm.
Box 24.—Main and Pynchon.
Box 241.*—Gilmore Opera House.
Box 25.—Dwight and Harrison avenue.
Box 251.—Chestnut and Worthington.
Box 253.—Bridge and Dwight.
Box 254.—Court and Dwight.
Box 26.—Main, opposite Hillman.
Box 27.—Water and Fort.
Box 271.—Water and Bridge.
Box 273.*—Myrick building.
Box 274.*—Springfield Breweries Co.

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Box 275.*—Myrick building.
Box 28.—Water and Vernon.
Box 29.—Water and Elm.
Box 291.*—Springfield Gas Light Co.
Box 3.—Main, opposite Lyman.
Box 31.—State and Chestnut.
Box 312.*—City Library.
Box 314*—St. Michael's Cathedral.
Box 32.—Maple and Central.
Box 321.—Maple and Mulberry.
Box 324.—Maple, opposite Park.
Box 34.—Main, opposite Central.
Box 341.—Main and Norwood.
Box 342.—Main and York.
Box 35.—Main and Howard.
Box 351.—Morris and Dale.
Box 352.—Main and Wilcox.
Box 36.—Water and Howard.
Box 362.*—Newell Bros. Mfg. Co.
Box 364.*—United Electric Light Co.
Box 37.—Water and Margaret.
Box 38. Water and Lombard.
Box 382.*—Street Railway Power House.
Box 39.—Broad and Hanover.
Box 4.—Taylor, opposite Power avenue.
Box 41.—Main and Cypress.
Box 412.*—U. S. Envelope Co.
Box 413.*—Cooley's Hotel.
Box 42.—Main and Emery.
Box 421.—Main and Holyoke.
Box 423.*—Street Railway Office.
Box 43.—Main and Sargeant.
Box 431.—Main, opposite Church.
Box 45.—Fulton and Emery.
Box 451.—North and Ferry.
Box 452.—North and Congress.
Box 453.—North and Tenth.
Box 46.—Fulton and Seventh.
Box 461.—Fulton and Plymouth.
Box 462.—Plainfield and Lowell.
Box 4621.—Plainfield and Newland.

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Box 463.—Plainfield and Rowland.
Box 4631.—Plainfield and Division.
Box 465.—Plainfield and Laurel.
Box 4651.—Fisk and Abbe avenues.
Box 47.—Main, opposite Osgood.
Box 471.—Main and Arch.
Box 472.—Birnie avenue and Huntington.
Box 473.—Birnie avenue and Medford.
Box 475.—Birnie avenue and Douglas.
Box 476.—Birnie avenue and Walter.
Box 48.—Hooker Street Fire Station.
Box 481.*—Birnie Paper Co.
Box 482.*—Holyoke Card and Paper Co.
Box 483.*—Wason Mfg Co.
Box 485.*—Stebbins Mfg. Co.
Box 49.—Main and Wason avenue.
Box 491.—Main and Alfred.
Box 4912.*—Bosch Magneto Co.
Box 4913.—Main and Grace.
Box 492.*—N. E. Russell's shop, 300 Birnie avenue.
Box 493.—Fisk and Demond avenues.
Box 5.—Main and Worthington.
Box 51.—Bay, near Sherman.
Box 512.—Bay, opposite Marion.
Box 513.—Bay, near Westminster.
Box 52.—St. James avenue, opposite Thompson park.
Box 521.—St. James avenue and Westminster street.
Box 53.—St. James avenue and Florida.
Box 531.—St. James avenue, opposite Bowdoin.
Box 54.—Worthington and Armory.
Box 56.—Worthington and Thompson.
Box 561.—Worthington and Bowdoin.
Box 562.*—Standard Oil Co.
Box 57.—Winchester square.
Box 571.*—Hendee Mfg. Co., 837 State.
Box 572.*—Hampden Lumber Co.
Box 573.—State and Pleasant.
Box 574.—State, opposite Hancock.
Box 58.—Princeton and Amherst.
Box 59.—St. James avenue, near Dorchester.
Box 591.*—Millet Brass Co., East Springfield.

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Box 592.*—Stevens-Duryea Auto Co., East Springfield.
Box 593.*—Hendee Mfg. Co., East Springfield.
Box 6.—Main and Bridge.
Box 61.—Mill and Locust.
Box 612.—South and Boulevard.
Box 613.—Fort Pleasant avenue and Park.
Box 614.—Fort Pleasant avenue and Riverview terrace
Box 615.—Mill and South.
Box 62.—Belmont avenue, opposite Keith.
Box 621.—Belmont avenue, near Garfield.
Box 623.—Belmont and Beaumont avenues.
Box 624.—Oakland and Orange.
Box 625.—Dickinson street and Euclid avenue.
Box 63.—Sumner avenue and Long Hill.
Box 631.—Long Hill street and Cherryvale avenue.
Box 632.—Firglade avenue, near Pineywoods.
Box 634.—Florentine Gardens.
Box 64.—Sumner avenue and Randolph.
Box 641.—Sumner avenue and Kenwood terrace.
Box 642.—Belmont avenue and Walden.
Box 643.—Belmont avenue and Lyndale.
Box 644.—White and Longfellow terrace.
Box 645.—Belmont avenue and White.
Box 65.—Garfield and Churchill.
Box 651.—Park avenue and Mountainview.
Box 652.—Sumner avenue, near Greenleaf.
Box 67.—Belmont and Sumner avenues.
Box 671.—White and Sumner avenue.
Box 6712.—Sumner avenue, near Trinity terrace.
Box 6713.—Sumner avenue and Spencer.
Box 672.—White and Scott.
Box 673.—Alderman and Ventura.
Box 674.—Sumner avenue, opposite Lester.
Box 68.—White and Orange.
Box 681.—Allen and Orange.
Box 682.—Allen, east of N. E. R. R. tracks.
Box 69.—Allen and White.
Box 7.—Liberty and Chestnut.
Box 71.—Chestnut and Springfield.
Box 712.—Springfield, north of Chestnut.
Box 713.—Hamburg and Farnsworth.

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Box 714.—Atwater Glen.
Box 72.—Chestnut and Alexander.
Box 721.—Main and Portland.
Box 73.—North and Jefferson avenue.
Box 732.*—City Hospital.
Box 74.—Chestnut and Prospect.
Box 741.—Carew and Armory.
Box 742.—Liberty and Sherman Road.
Box 743.—Liberty and Woodmont.
Box 744.—Armory, opposite Wait.
Box 75.—North and Ringgold.
Box 751.—North and Bond.
Box 752.*—Dexter's Bakery, Bond street.
Box 76.—Chestnut and Carew.
Box 761.*—Mercy Hospital.
Box 762.*—Sacred Heart Church.
Box 77.*—West Box Shop.
Box 771.—Liberty and Genesee.
Box 78.—Chestnut, opposite Greenwood.
Box 79.—Liberty and Cass.
Box 791.—Liberty, opposite Heywood avenue.
Box 792.*—Cheney Bigelow Wire Works.
Box 793.*—Taber Prang Art Co.
Box 794.—Liberty and Armory.
Box 795.—Liberty and Grover.
Box 796.—Springfield and Armory.
Box 8.—Taylor and Dwight.
Box 81.—Walnut and Oak.
Box 82.—Walnut and Cedar.
Box 83.—Walnut and Hancock.
Box 84.—Lincoln Hall.
Box 841.*—Water Shops, U. S. Armory.
Box 85.—Central and Spruce.
Box 851.—Central and Hancock.
Box 86.—Central and Pine.
Box 87.—Maple and Pine.
Box 89.—Maple and Mill.
Box 9.—Lyman and Chestnut.
Box 92.—Wilbraham road and Homer.
Box 921.—State, near American International College.
Box 923.—Wilbraham road and Colonial avenue.

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Box 924.—Wilbraham road and Benton.
Box 93.—State and Reed.
Box 931.*—City Almshouse.
Box 932.*—Springfield Breweries Co., Highland Branch.
Box 933.—State and Marlboro.
Box 934.—State and Benton.
Box 94.—Wilbraham road and Rutland avenue.
Box 95.—Wilbraham avenue and Beverly.
Box 96.—Hancock and Quincy.
Box 961.—Hancock and King.
Box 962.—Stebbins and Union.
Box 964.—Lebanon and Prince.
Box 97.—Pendleton and Eastern avenues.
Box 971.—Eastern avenue and Union.
Box 972.—King and Logan.
Box 973.—King and Westford avenue.
Box 98.—Alden and Eastern avenue.
Box 981.—Alden and Hickory.

INDIAN ORCHARD.

Box 4.—Oak and Parker.
Box 5.—Worcester and Pine.
Box 6.—Main and Myrtle.
Box 25.—Main and Oak.
Box 27.—Main and Cedar.
Box 29.—Main and Parker.
Box 35.—Hampden and Chestnut.
Box 36.—Oak, opposite Franklin.
Box 361.*—Fiberloid Co.
Box 37.—Berkshire and Myrtle.
Box 371.*—Chapman Valve Co.
Box 43.—Main and Lyons.
Box 76.—South and Haley avenue.

SCHOOL SIGNALS.

Two blows, five times, at 7:15 A. M.—No morning session of high schools.
Two blows, five times, at 7:45 A. M.—No morning session of primary and grammar schools.

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Two blows, five times, at 11:30 A. M.—No afternoon session of primary and grammar schools.

Two blows, five times, at 12:15 P. M.—No afternoon session of high schools.

All private boxes are marked with *.

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ANNUAL REPORT

OF THE

SUPERINTENDENT OF THE FIRE ALARM TELEGRAPH BUREAU

To the Honorable Board of Commissioners of the Fire Department.

GENTLEMEN: Three hundred and twenty-three (323) signals have been received over the system during the year.

We have installed fifteen (15) new street boxes and two (2) private boxes.

I would recommend that in the congested district successive boxes replace the old style boxes, which have been in service twenty-five (25) years. At least five new street boxes should be installed during 1914.

All the city's wires within the territory designated the first of the year have been placed underground, including those to the Plainfield street fire station.

Respectfully,

S. L. WHEELER,

Superintendent.

December 26, 1913.

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REPORT OF

THE POLICE COMMISSION

To His Honor, the Mayor, and the City Council of the City of Springfield.

GENTLEMEN: Your Board of Police Commissioners submits to you herewith its annual report of the Police Department for the year ending November 30, 1913.

At the beginning of the year this Board was composed of John W. Kennely, Fred O. Clapp, and Edward H. Cullen.

The death of Mr. Fred O. Clapp, which occurred March 8, 1913, was a great misfortune to the department, and your present Commissioners desire at this time to testify to the faithful and conscientious work performed by Mr. Clapp during his term as Commissioner, which extended from January, 1907, to the day of his death.

In April, the Mayor designated Joseph G. Merrick to fill the unexpired term made vacant by the death of Mr. Clapp, and at the same time appointed James Milton Gill for a term of three years to succeed John W. Kennely, whose term of office expired May 5, 1913.

INCIDENTS OF THE YEAR.

On the twenty-ninth day of January, Thomas F. McGlynn was appointed Prosecuting Attorney to succeed Raymond A. Bidwell.

The force has been increased, under authority from your Honorable Board, by the addition of six officers.

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The following named retired patrolmen have died during the year: Michael R. Donovan, August 12, 1913; David H. Newcomb, October 18, 1913. Messrs. Donovan and Newcomb were veterans in the department, and had rendered efficient service to the city.

Retirement of Calvin W. Jennings, who had served as patrolman since February 24, 1890, has been granted upon his own application.

The discipline of the force during the year has on the whole been good. There have been a number of charges preferred against officers which have received the attention of the Board. In a majority of instances the offenses were not serious and suitable penalties were imposed without hearing being demanded. Five patrolmen have been given hearings by the Board, three of whom were exonerated, the other two being found guilty and subjected to penalties appropriate to their offenses.

The detective service has been increased by the promotion of Walter L. Henderson from patrolman to inspector.

The traffic squad has been increased and five new posts have been established. The efficiency shown by this branch of the service in regulating traffic and in protecting and giving information to the traveling public has been apparent to all, and a still further increase should be made in this squad and additional posts established.

A mounted squad of six men has been organized, and they have received instruction in horsemanship from a competent riding master. Experience of other cities has demonstrated the usefulness of such squads, and, although it is too early to point to definite results in this city, we believe that the future will justify the continuance and increase of this branch of the service.

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A system of grading patrolmen on a merit basis has been established, and in connection therewith individual records of the work of each man in the department are being kept.

Under the supervision of Major David A. Turner semi-monthly military drills have been held, and provision has been made for weekly instruction in physical training under the direction of a competent instructor. To aid in this work, we recommend the installation of suitable gymnasium apparatus.

Arrangements have been made so that during the coming year the men shall receive from their superior officers a course of instruction relative to general police work, and from the Prosecuting Attorney talks upon law and evidence pertaining to such subjects as are likely to come to the attention of a police officer.

The walls of the Court Room in the police building have been covered with acousticus felt, and the acoustic properties of the room greatly improved.

RECOMMENDATIONS.

We are justly proud that Springfield is a rapidly growing city, both in population and in settled area. Consequently there is an increased and increasing demand upon this department to secure the proper patrolling of the city, to care for its traffic and to provide sufficient officers in cases of emergency and large public gatherings. In these respects we have been greatly handicapped during the past year, and of necessity there have been times when to secure the presence of sufficient men at a given point other parts of the city have been left unprotected. We feel that it is imperative that a substantial increase of the force be made, and we therefore recommend that provision be made for the appointment of at least fifty additional men.

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We believe that this department would be enabled to render more efficient aid at fires by the use of the fire whistle at all hours of the day and night, as under present conditions, in most instances, between the hours of 9.30 P. M. and 6.00 A. M., sergeants and patrolmen specially detailed for duty at fires have no knowledge of the existence or location of a fire.

We believe that this department should be relieved of the care and responsibility of providing for the prisoners of the town of West Springfield, and that some action should be taken compelling said town to establish and maintain its own lockup, as required by law.

We recommend the repainting of the walls of the police headquarters building and the refinishing of the woodwork throughout; and the installation of revolving doors in the front and side entrances of the building.

Owing to the increased automobile equipment at headquarters, it is imperative that our garage be substantially enlarged. We recommend that this be done.

Station No. 2 at Indian Orchard is in need of extensive repairs, which should be made at once. But in good condition the quarters are inadequate, and a new station will be required in the near future. We therefore recommend the early purchase of a suitable site to be utilized for the ultimate erection of such building.

We advise that there be installed throughout the city additional signal boxes and a system of signal lights, so as to provide for a more efficient means of communication between headquarters and officers on duty.

We renew the suggestions made earlier in this report relative to additional traffic officers and the purchase of gymnasium equipment.

The report of the Chief of Police to this Board is attached hereto and submitted as a part of this report.

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In conclusion we desire to thank most heartily His Honor, the Mayor, and your Honorable Board, for your co-operation with us during the past year, in aiding us and making it possible for us to accomplish many of those things to which mention has been made above.

Respectfully submitted,

JAMES MILTON GILL, *Chairman,*
E. H. CULLEN,
J. G. MERRICK,

Board of Police Commissioners.

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REPORT OF

WILLIAM J. QUILTY

CHIEF OF POLICE

TO

BOARD OF POLICE COMMISSIONERS

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CITY OF SPRINGFIELD, MASSACHUSETTS.

1913

Population	100,000
Area	38.51 square miles
Public streets	167 miles

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ANNUAL REPORT

OF

CHIEF OF POLICE

SPRINGFIELD, MASS., December 1, 1913.

To the Board of Police Commissioners of the City of Springfield.

GENTLEMEN: I herewith submit the Annual Report of the Chief of Police for the year ending November 30, 1913.

ROSTER OF THE DEPARTMENT.

BOARD OF POLICE COMMISSIONERS.

JAMES MILTON GILL, *Chairman*,
EDWARD H. CULLEN, JOSEPH G. MERRICK.

OFFICERS OF THE DEPARTMENT.

No.	Name.		Date of Appointment.	Nativity.	Age.
1.	Wm. J. Quilty,	Chief,	March 7, 1887,	United States,	58
2.	Chas. M. Wright,	Dep. Chief,	March 3, 1869,	United States,	68
3.	John H. Boyle,	Chief Inspector,	June 6, 1887,	United States,	51
4.	John J. O'Malley,	Captain,	January 26, 1874,	Ireland,	62
5.	Henry M. Perkins,	Captain,	May 14, 1883,	United States,	61
6.	John J. St. Ledger,	Inspector,	July 12, 1888,	Ireland,	54
7.	Martin P. Costello,	Inspector,	March 28, 1898,	United States,	43
8.	James T. Raiche,	Inspector,	October 17, 1901,	United States,	42
9.	James M. Daly,	Inspector,	November 23, 1896,	United States,	52
10.	Frank W. Quilty,	Inspector,	March 25, 1912,	United States,	25
11.	Walter L. Henderson,	Inspector,	January 14, 1908,	Canada,	37
12.	George H. Norris,	Vice Squad,	January 18, 1875,	United States,	63
13.	Edgar A. Littlefield,	Vice Squad,	June 30, 1896,	United States,	45
14.	Edward J. Rathbun,	Vice Squad,	January 14, 1908,	United States,	30

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No.	Name.		Date of Appointment.	Nativity.	Age.
15.	David J. Manning,	Lieutenant,	January 12, 1879,	United States,	62
16.	Chas. A. Wade,	Lieutenant,	April 8, 1889,	United States,	53
17.	John Hall,	Sergeant,	November 12, 1883,	Ireland,	56
18.	E. Frank Goodwin,	Sergeant,	October 25, 1886,	United States,	66
19.	Patrick J. McCallin,	Sergeant,	January 12, 1879,	Ireland,	65
20.	Patrick H. McDonald,	Sergeant,	June 20, 1896,	United States,	54
21.	James C. Burke,	Sergeant,	June 7, 1892,	United States,	4
22.	Michael J. O'Brien,	Sergeant,	February 15, 1897,	United States,	44
23.	Frederick L. Thayer,	Sergeant,	September 4, 1894,	United States,	50

NIGHT AND DAY WATCHMEN.

No.	Name.	Date of Appointment.	Nativity.	Age.
1.	Paul J. O'Brien,	May 28, 1884,	United States,	57
2.	Ernest Rosenberg,	May 4, 1885,	Germany,	68
3.	John H. Dunleavy,	May 18, 1885,	United States,	57
4.	Thomas Ranney,	June 17, 1885,	United States,	65
5.	James Murtagh,	October 25, 1886,	United States,	52
6.	Michael C. Quinlivan,	September 4, 1891,	Ireland,	51
7.	Chas. H. O'Connell,	May 23, 1892,	United States,	46
8.	Ward E. Maranville,	May 23, 1892,	United States,	54
9.	Edgar A. Kirk,	January 22, 1894,	United States,	69
10.	Albert H. Shaw,	March 11, 1895,	England,	55
11.	James J. Donovan,	June 30, 1896,	Ireland,	48
12.	Edward P. Tilton,	June 30, 1896,	United States,	51
13.	James H. Rogers,	February 1, 1897,	United States,	69
14.	John A. Swift,	February 15, 1897,	Ireland,	47
15.	Michael F. Egan,	March 22, 1897,	Ireland,	54
16.	Patrick Keefe,	March 22, 1897,	Ireland,	50
17.	Andrew J. Melaney,	March 20, 1899,	United States,	41
18.	Albert E. Ward,	March 20, 1899,	United States,	40
19.	Simon J. Connery,	September 26, 1899,	United States,	51
20.	Ovila L. Huot,	July 13, 1900,	Canada,	45
21.	Michael Kennedy,	July 13, 1900,	Ireland,	41
22.	William J. Grady,	July 13, 1900,	United States,	53
23.	Daniel J. Twohig,	July 13, 1900,	United States,	40
24.	Timothy J. Hallahan,	October 17, 1901,	Ireland,	44
25.	Charles W. Geary,	October 17, 1901,	United States,	44
26.	John F. Bacon,	October 17, 1901,	United States,	40
27.	John L. Maloney,	October 28, 1901,	United States,	37
28.	Ernest P. Marble,	December 30, 1902,	United States,	35
29.	James F. Dagnan,	January 2, 1903,	United States,	39
30.	Alexander Gray,	January 20, 1903,	Scotland,	44
31.	Edwin C. Holbrook,	September 1, 1903,	United States,	46
32.	Chas. H. Hatfield,	February 14, 1905,	United States,	45
33.	Patrick Lynch,	June 5, 1905,	Ireland,	46
34.	John P. Sullivan,	October 18, 1905,	United States,	40
35.	Patrick J. O'Connor,	January 11, 1906,	Ireland,	37
36.	Thomas Maloney,	January 11, 1906,	Ireland,	37
37.	Frederick J. Runnells,	January 11, 1906,	United States,	35
38.	Marshall A. Belmer,	January 11, 1906,	United States,	34
39.	William J. Hurley,	April 3, 1906,	Ireland,	40
40.	Llewellyn D. Carey,	January 2, 1907,	United States,	41

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No.	Name.	Date of Appointment.	Nativity.	Age.
41.	Wm. F. Goldrick,	January 22, 1907,	Ireland,	41
42.	Michael F. Sullivan,	January 22, 1907,	United States,	40
43.	Joseph D. Powers,	January 22, 1907,	United States,	37
44.	Edward Carey,	June 27, 1907,	Ireland,	41
45.	Neal Ferry,	June 27, 1907,	Ireland,	45
46.	Horace H. Clark,	January 14, 1908,	United States,	37
47.	Aime L. J. Letendre,	January 14, 1908,	Canada,	34
48.	Frederick P. Smith,	January 14, 1908,	United States,	35
49.	George F. Russell,	January 14, 1908,	United States,	36
50.	Joseph A. Murphy,	January 14, 1908,	United States,	40
51.	James A. Dowling,	January 14, 1908,	United States,	45
52.	James H. O'Brien,	January 14, 1908,	United States,	44
53.	John McNeil,	January 14, 1908,	United States,	30
54.	Durham N. Pepin,	January 14, 1908,	United States,	34
55.	Thomas B. Drinan,	January 14, 1908,	United States,	38
56.	Clarence E. Bradway,	January 14, 1908,	United States,	35
57.	James J. Collins,	January 14, 1908,	Ireland,	33
58.	Bernard F. J. Bergren,	January 14, 1908,	United States,	32
59.	Peter H. Walsh,	January 14, 1908,	Ireland,	37
60.	John F. Donoghue,	October 6, 1908,	United States,	32
61.	William S. Bates,	October 6, 1908,	United States,	38
62.	Daniel F. McCarthy,	July 6, 1909,	United States,	38
63.	John LaFond,	July 6, 1909,	United States,	37
64.	Patrick J. Fenton,	July 6, 1909,	Ireland,	46
65.	Frederick J. Sevigne,	August 5, 1909,	United States,	37
66.	Alfred H. Penfield,	December 18, 1909,	United States,	34
67.	Robert Rennison,	June 7, 1910,	United States,	28
68.	John A. Hamberg,	August 16, 1910,	Sweden,	36
69.	Myron H. Bullard,	September 12, 1910,	United States,	33
70.	John A. Driscoll,	November 1, 1910,	United States,	41
71.	Harley H. Blodgett,	February 7, 1911,	United States,	38
72.	Charles Martens,	April 8, 1911,	United States,	30
73.	Perley J. Hewey,	June 7, 1911,	United States,	35
74.	William J. Hogan,	June 7, 1911,	United States,	33
75.	Herbert A. Clark,	June 7, 1911,	United States,	33
76.	John F. Carlton,	June 7, 1911,	United States,	30
77.	Ernest C. Smith,	August 22, 1911,	United States,	34
78.	James F. Mullins,	September 27, 1911,	United States,	33
79.	George E. Lynch,	March 25, 1912,	Ireland,	37
80.	Michael Flannery,	March 25, 1912,	Ireland,	37
81.	Howard F. Tourtellotte,	March 25, 1912,	United States,	27
82.	John G. Flynn,	March 25, 1912,	United States,	28
83.	Edward J. Slattery,	March 25, 1912,	United States,	42
84.	Michael J. Curley,	March 25, 1912,	Ireland,	33
85.	Arthur H. Carrigg,	March 25, 1912,	United States,	31
86.	Jeremiah B. O'Leary	March 25, 1912,	United States,	27
87.	Charles Hanlon,	March 25, 1912,	United States,	28
88.	John Hayes,	March 25, 1912,	Ireland,	39
89.	Patrick J. Keane,	March 25, 1912,	Ireland,	38
90.	Thomas F. Connery,	March 25, 1912,	United States,	33
91.	Louis H. Pilon,	March 25, 1912,	United States,	29
92.	Eugene F. Kelleher,	March 25, 1912,	United States,	25
93.	James P. Gray,	April 17, 1912,	United States,	30
94.	Thomas L. Kavanaugh,	April 23, 1912,	Ireland,	30
95.	Matthew P. Ryan,	July 8, 1912,	United States,	38

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No.	Name.	Date of Appointment.	Nativity.	Age.
96.	William F. Lonergan,	July 29, 1912,	United States,	24
97.	Patrick B. Sullivan,	September 9, 1912,	United States,	27
98.	James J. Moylan,	October 24, 1912,	United States,	27
99.	Thomas A. Kennefick,	October 24, 1912,	United States,	31
100.	John W. Unwin,	March 26, 1913,	United States,	28
101.	James W. O'Keefe,	April 11, 1913,	United States,	34
102.	John H. St. Ledger,	May 30, 1913,	United States,	28
103.	Matthew J. Meade,	May 30, 1913,	United States,	26
104.	William G. Dale,	May 30, 1913,	United States,	24
105.	D. J. Manning, Jr.,	May 30, 1913,	United States,	24
106.	John B. Carrigg,	May 30, 1913,	United States,	29
107.	Peter J. Marra,	May 30, 1913,	United States,	29
108.	Frederick Cullen,	August 4, 1913,	United States,	33

RESERVE FORCE.

No.	Name.	Date of Appointment.	Nativity.	Age.
109.	John C. Driscoll,	July 1, 1912,	United States,	25
110.	Cornelius P. Brosnan,	July 1, 1912,	United States,	34
111.	Charles C. Learned,	July 1, 1912,	United States,	27
112.	Antonio Forni,	July 1, 1912,	Italy,	41
113.	Michael J. O'Brien,	July 1, 1912,	United States,	26
114.	James F. Wood,	July 1, 1912,	Ireland,	28
115.	Lovell S. Spaulding,	July 1, 1912,	United States,	35
116.	John J. Maloney,	July 8, 1912,	Ireland,	33
117.	Arthur E. Clifford,	September 9, 1912,	United States,	24
118.	Edward D. Pepin,	September 9, 1912,	United States,	27
119.	Fred A. Champous,	September 9, 1912,	United States,	29
120.	William H. Hickey,	December 2, 1912,	United States,	23
121.	Raymond C. Vining,	December 2, 1912,	United States,	27
122.	Ralph J. Carleton,	April 6, 1913,	United States,	23
123.	John J. Donlin,	April 6, 1913,	United States,	23
124.	Ernest C. LaFleur,	April 6, 1913,	United States,	31
125.	James W. Pease,	July 29, 1913,	United States,	25
126.	Edward J. Costello,	July 29, 1913,	United States,	25
127.	Owen C. V. Sloan,	July 29, 1913,	United States,	28
128.	John H. McDonald,	July 29, 1913,	United States,	26
129.	George N. Riley,	July 29, 1913,	United States,	23
130.	John F. Hurley,	July 29, 1913,	United States,	23
131.	Walter Ward,	July 29, 1913,	United States,	25
132.	Harry R. Button,	August 4, 1913,	United States,	33

RETIRED.

Charles A. Haynes,	July 7, 1909,	United States,	65
William H. Sibley,	September 12, 1910,	United States,	61
George L. DeForest,	October 15, 1912,	United States,	60
Calvin W. Jennings,	August 4, 1913,	United States,	72

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Constantin Pantasides, Department Clerk.
Miss Anna A. Kelliher, Clerk.
Miss Nellie R. Driscoll, Clerk.
Montague R. Marsh, Chauffeur.
Harry R. Button, Chauffeur.
Ellsworth Myers, Chauffeur.
George N. Riley, Chauffeur.
Mrs. Maria E. Holley, Matron.
Mrs. Delia E. Flanagan, Matron.
Miss Grace M. Conway, Tel. Operator.
Miss Esther W. Burlingham, Tel. Operator.
Samuel L. Wheeler, Electrician.
Clayton J. Lewis, Janitor.
Homer B. Smith, Janitor.
Mrs. Katherine Sheehan, Janitress.

COMPOSITION OF FORCE.

Chief,	1
Deputy Chief,	1
Chief Inspector,	1
Captains,	2
Inspectors,	9
Lieutenants,	2
Sergeants,	7
Patrolmen, Grade A,	78
Patrolmen, Grade B,	21
Patrolmen, Grade C,	9
Reserve men,	24
Department clerk,	1
Clerks,	2
Chauffeurs,	4
Matrons,	2
Telephone Operators,	2
Supt. Police Signal System,	1
Janitors,	3
Retired Inspector,	1
Retired Patrolmen,	3

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APPROPRIATIONS, EXPENDITURES, AND RECEIPTS.

Appropriation,		$193,328.77
Expenditures,	$193,081.64	
Balance,	247.13	
		$193,328.77

RECEIPTS.

Fines,	$12,126.13	
All others,	858.97	
		$12,985.10

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TOTAL NUMBER OF DAYS LOST BY SICKNESS, ABSENCE AND VACATION BY MEMBERS OF THE DEPARTMENT.

Total number on special duty,	905
Total number on sick list,	657
Total number on vacation,	1,353
Total number on leave of absence,	478
Total number without leave of absence,	2
Total number days off,	2,652

MISCELLANEOUS DUTIES.

Accidents reported,	435
Buildings open and secured,	1,721
Defective streets reported,	52
Sidewalks reported defective,	192
Disturbances suppressed,	8
Electric lights out,	2,501
Fire alarms given,	11
Fire alarms reported,	421
Fires extinguished by officers,	5
Intoxicated persons sent home,	3
Lost children restored,	65
Teams put up,	2

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TABULATED STATEMENT OF ARRESTS
For the Year Ending November 20, 1913.

MONTHS.	Dec.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Totals
Males	397	263	322	400	421	397	352	405	437	435	447	405	4,751
Females	22	25	21	30	34	29	29	40	24	37	30	25	326
Minors	58	66	39	53	58	43	45	72	68	70	78	69	721
Adults	336	322	304	377	397	353	336	373	393	402	399	361	4,306
Residents	284	289	269	291	343	296	255	324	286	308	327	315	3,590
Non-Residents	108	99	53	139	112	129	126	121	175	164	140	115	1,907
Americans	247	244	209	282	294	276	229	301	311	310	303	299	3,296
Foreigners	143	144	134	148	161	150	152	144	150	162	164	158	1,801
Totals	390	388	343	430	455	426	381	445	461	472	467	430	5,097

DISPOSITION OF CASES.

Fined and Paid	45	59	66	67	89	92	69	76	81	87	90	58	882
Fined and Committed	45	65	55	71	67	55	57	82	63	88	59	34	741
Committed for Sentence	71	59	46	56	60	65	47	43	38	62	48	59	654
Probated	16	18	8	12	13	11	17	9	6	7	13	15	145
Sentence suspended	71	41	48	75	76	75	72	70	80	101	95	67	871
Appealed	1	2		1	2	1	1	2	2	3	2	5	22
Bound Over to Superior Court	1	2	4			1	1	2					11
Released	69	74	35	102	67	83	75	86	90	82	77	95	926
Discharged	14	14	16	9	17	1	12	16	5	14	7	7	132
Pending	165	144	118	92	126	118	92	147	140	115	148	164	1,569
Filed Away	14	8	15	12	15	8	12	13	27	19	30	19	192

AMOUNT OF FINES.

	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Totals.
Imposed	$1,355	$1,558	$1,826	$1,530	$2,026	$1,819	$2,138	$2,543	$1,241	$1,968	$1,776	$972	$20,752
Paid	787	642	872	803	1,357	831	799	1,112	442	753	655	569	9,622

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NATIVITY OF PRISONERS.

	Males.	Females.		Males.	Females.
Armenia,	1	0	Italy,	225	23
Australia,	1	0	Liberia,	2	0
Austria,	89	5	Norway,	3	0
Brazil,	1	0	Poland,	46	0
Canada,	251	12	Porto Rico,	1	0
Chile,	2	0	Portugal,	4	0
China,	12	0	Rumania,	1	0
Cuba,	1	0	Russia,	223	10
Denmark,	6	0	Scotland,	90	4
Egypt,	0	2	Sweden,	75	0
England,	101	17	Switzerland,	1	0
Finland,	6	0	Syria,	35	0
France,	5	1	Turkey,	4	0
Germany,	37	1	Unknown,	258	18
Greece,	24	0	United States,	2,681	182
Hungaria,	1	0	Wales,	11	0
India,	3	0	West Indies,	1	0
Ireland,	549	61			

Total, Males, 4,751; Females, 336.
Total 5,087.

CLASSIFICATION OF AGES OF PRISONERS.

Ages,	10–20	21–30	31–40	41–50	over 50	Total
Males,	634	1,383	1,204	924	606	4,751
Females,	35	86	91	90	34	336
Total arrests,						5,087

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OFFENSES.

Adultery,	2
Arson,	1
Assault and battery,	156
Assault and robbery,	7
Assault on an officer,	18
Assault with a deadly weapon,	21
Assault with intent to rob,	1
Attempt to rape,	4
Attempt to break and enter,	2
Bastardy,	12
Being present at illegal game,	22
Being present where opium is kept,	13
Breaking and entering,	35
Breaking glass,	11
Breach of the peace,	179
Burning a building,	1
Carrying brass knuckles,	1
Carrying concealed weapon,	3
Carrying loaded revolver,	38
Common night walker,	4
Crime against chastity,	6
Cruelty to animals,	3
Delinquents,	58
Destroying property,	4
Destroying railroad property,	6
Disorderly conduct,	2
Disturbing a meeting,	8
Disturbance on street car,	3
Driving away an auto,	13
Driving away a team,	2
Drunkenness,	2,721
Escaped lunatic,	1
Escaped prisoner,	2
Evading railroad fare,	5
Extortion,	2
Forgery,	1
Fornication,	36
Fugitive from justice,	104
Gambling,	35

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Illegal game,	13
Habitual truant,	1
Highway robbery,	2
Impersonating an officer,	5
Insane,	20
Indecent exposure,	9
Interfering with an officer,	2
Keeping gambling house,	1
Keeping unlicensed dog,	19
Larceny,	262
Larceny from common carrier,	3
Larceny from the person,	8
Larceny in a building,	12
Lewd and lascivious behavior,	4
Lewd and lascivious cohabitation,	25
Malicious mischief,	11
Manslaughter,	1
Murder,	1
Murder, attempt,	1
Non-payment of fine,	14
Non-support,	59
Peddling without license,	18
Peeping Tom,	1
Profane and indecent language,	50
Promoting a lottery,	3
Rape,	1
Receiving stolen goods,	7
Reckless driving,	3
Ringing false fire alarm,	4
Robbery,	6
Runaways,	62
Selling leased property,	1
Setting bonfires,	1
Stubborn and disobedient,	12
Suspicious,	302
Throwing missiles at railroad car,	1
Trespass,	95
Trespass of fowls,	2
Unnatural crime,	2
Vagrancy,	130
Violating bicycle law,	1

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Violating city ordinance,	72
Violating condition of parole,	3
Violating food law,	13
Violating game law,	1
Violating health law,	4
Violating liquor law,	53
Violating Lord's day,	20
Violating opium law,	1
Violating park ordinance,	9
Violating traffic law,	39
Violating automobile law,	60
Violating parole,	2
Violating drug law,	7
Violating white slave law,	2
Violating school law,	1
Violating minor law,	6
Violating license law,	1
Violating plumbers' law,	3
Violating oleo law,	3
Violating smoke law,	7
Violating motorcycle law,	1
Violating probation,	1
Violating milk law,	1
Violating labor law,	1
Walking railroad track,	58
Total,	5,087

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REPORT OF THE MATRONS.

	Female Prisoners.	Female Lodgers.	Lost Children.
December,	22	0	6
January,	25	3	9
February,	21	0	5
March,	30	0	6
April,	34	0	17
May,	29	0	18
June,	29	7	19
July,	40	1	19
August,	24	0	15
September,	37	0	13
October,	20	0	11
November,	25	0	17
	336	11	155

OFFENSES.

Adultery,	1
Arson,	1
Assault,	6
Breach of peace,	5
Common night walker,	4
Crime against chastity,	2
Disorderly house keeping,	3
Drunkenness,	191
Extortion,	1
Fornication,	17
Fugitive from justice,	3
Insane,	19
Keeping house of ill fame,	1
Larceny,	23
Lewd and lascivious cohabitation,	18
Runaways,	7
Stubborn child,	3
Suspicious,	6

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Trespass,	2
Unnatural act,	1
Vagrancy,	7
Violating probation,	1
Violating liquor law,	11
White slave traffic,	1
Witness in white slave traffic,	2
Total,	336

RECORD OF JUVENILE CASES.

Classification of Offenses.

BOYS.

Assault,	5	Larceny from a building,	12
Assault and battery,	18	Larceny from common carrier,	5
Attempt to burn a building,	1	Larceny from the person,	1
Attempted larceny,	1	Profanity,	2
Attempt to rob,	1	Ringing false alarm,	4
Breaking and entering and larceny,	14	Stubbornness,	7
Breaking glass,	14	Taking an auto,	5
Breach of peace,	4	Throwing missiles at railroad car,	1
Destroying property,	5	Trespass,	13
Disturbing religious meeting,	2	Vagrancy,	3
Disturbing school,	4	Violating city ordinance,	14
Forgery,	1	Walking railroad tracks,	1
Larceny,	80	Wayward child,	1
Total,			219

GIRLS.

Assault and battery,	1	Larceny from a building,	1
Larceny,	4	Stubbornness,	5
Total,			11

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DISPOSITION OF CASES.

BOYS.

Continued from day to day,	17	Sent to Lyman school,	13
Discharged,	21	Sent to Shirley,	3
Filed away,	30	Sent to Truant school,	1
Fined,	56	Taken by State Board of Charity,	1
Placed on probation,	77		
Total,	219		

GIRLS.

Defaulted,	1	Placed on probation,	5
Filed away,	2	Sent to Industrial school,	1
Pending,	1	Taken by State Board Charity,	1
Total,	11		

AGES.

Years	9	10	11	12	13	14	15	16	Unknown
Boys,	2	5	7	20	25	30	46	55	29
Girls,	0	1	0	1	2	1	2	2	2

Total Boys, 219 Total Girls, 11

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WILLIAM J. QUILTY, Chief of Police.

SIR: I herewith submit to you the annual report of the arrests, cases investigated, property recovered, etc., by the Detective Bureau during the year 1913:—

Arson,	1
Assault,	9
Assault and robbery,	10
Assault to murder,	1
Assault with deadly weapon,	15
Assuming to be police officer,	7
Attempted larceny,	3
Attempt to rape,	7
Attempt to break and enter,	3
Bastardy,	4
Blackmail,	2
Breaking and entering,	51
Burning a building,	1
Carrying loaded revolver,	11
Forgery,	2
Fugitive from justice,	125
Indecent exposure,	1
Larceny,	264
Larceny from common carrier,	7
Larceny from the person,	18
Larceny in a building,	8
Lewd and lascivious cohabitation,	12
Manslaughter,	1
Murder,	1
Non-support,	10
Peddling jewelry,	1
Rape,	2
Receiving stolen goods,	11
Vagrancy,	30
Violating automobile law,	18
Violating city ordinance,	2
Violating drug law,	3
Gambling,	2
Total,	643

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Suspects brought in and investigated,	460
Total number of cases investigated,	3,036
Value of property reported stolen,	$18,164.30
Value of property recovered,	14,155.68
Property recovered for other cities,	3,463.75
Photographs of criminals taken,	303
Finger prints of criminals taken,	1,200
Finger prints and photographs sent out,	897

Respectfully submitted,

JOHN H. BOYLE,

Chief Inspector.

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Report of the Vice Squad to the Chief of Police for the year ending November 30, 1913.

ARRESTS.

Adultery,	2
Assault,	8
Bastardy,	4
Being present at illegal game,	27
Breach of peace,	1
Carrying revolver,	1
Common night walker,	3
Crime against chastity,	5
Destroying property,	3
Drunkenness,	8
Fornication,	8
Fugitive from justice,	8
Gambling,	19
Illegal gaming on Lord's day,	9
Keeping gambling house,	3
Larceny,	2
Lewd and lascivious behavior,	1
Lewd and lascivious cohabitation,	13
Non-support,	4
Profane and indecent language,	3
Promoting a lottery,	1
Runaway,	7
Stubborn child,	5
Vagrancy,	3
Violating auto law,	33
Violating liquor law,	52
Violating Lord's day,	7
Violating opium law,	15
Violating parole,	1
White slave traffic,	2
Total,	258
Total number cases investigated,	924
Cases investigated for City Solicitor,	17
Cases investigated for License Commissioners,	76
Cases investigated for State departments,	8
Summonses served,	8

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Fines imposed,		$5,885.00
Fines paid,		5,279.00
Posters approved,	12,503	
Posters disapproved,	932	
		13,435

PATROL AND AMBULANCE REPORT.

	MODEL G.			MODEL F.		
	Regular.	Emergency.	Fire.	Regular.	Emergency.	Fire.
December,	352	7	6	64	8	9
January,	327	13	11	35	3	7
February,	221	9	8	8	0	0
March,	228	10	3	20	0	1
April,	274	10	11	17	0	0
May,	131	13	2	55	3	1
June,	115	4	4	102	1	4
July,	233	8	26	25	1	3
August,	205	9	12	22	0	1
September,	203	3	11	1	0	2
October,	152	8	3	9	0	0
November,	58	5	3	21	1	1
	2,499	99	100	379	17	29
	Total,		2,698	Total,		425

	MODEL R.			TOURING CAR.		
	Regular.	Emergency.	Fire.	Regular.	Emergency.	Fire.
January,	60	4	1	15	1	0
February,	105	7	3	35	0	0
March,	144	4	4	69	0	0
April,	135	3	9	64	0	0
May,	206	4	4	87	0	0
June,	206	11	6	54	0	0
July,	192	19	6	119	2	0
August,	215	6	12	70	0	0
September,	230	7	5	22	0	0
October,	262	8	13	71	4	1
November,	305	8	10	96	3	1
	2,060	81	73	702	10	2
	Total,		2,214	Total,		714

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Number of miles run during the year, Model G,	6,696	
Number of miles run during the year, Model F,	850	
Number of miles run during the year, Model R,	5,518	
Number of miles run during the year, Touring Car,	3,516	
Number of miles run during the year, all autos,		16,580
Number of miles run by Model G during the five years it has been in commission,		26,371
Number of miles run by Model F during the nine years it has been in commission,		36,968

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OBITUARY

COMMISSIONER FRED O. CLAPP.

Appointed,	January, 1907.
Died,	March 8, 1913.

PATROLMAN MICHAEL R. DONOVAN.

Appointed,	May 23, 1892.
Retired,	April 11, 1913.
Died,	August 12, 1913.

PATROLMAN DAVID A. NEWCOMB.

Appointed,	June 15, 1891.
Retired,	October 7, 1912.
Died,	October 18, 1913.

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The following is a schedule and valuation of the property in charge of the Police Department:—

PROPERTY AND BUILDINGS.

Court Street property,	$20,000.00
Court Street building,	116,000.00
Indian Orchard property and building,	4,000.00
Police signal system,	12,000.00

COMMISSIONERS' OFFICE.

1 table,	$40.00	
6 chairs,	24.00	
2 cuspidors,	4.00	
1 rug,	40.00	
1 telephone stand,	4.00	
1 hatrack,	2.00	
1 wastebasket,	.50	
1 clock,	16.00	
1 electric fan,	19.50	
		$150.00

CHIEF'S OFFICE.

1 desk and chair,	$45.00	
1 rug,	35.00	
4 chairs,	10.00	
1 wardrobe,	24.00	
1 cuspidor,	1.00	
1 wastebasket,	.50	
1 bench,	12.00	
1 frame and picture,	75.00	
3 maps,	15.00	
1 clock,	16.00	
		$233.50

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CLERK'S OFFICE.

2 desks,	$50.00	
2 desk chairs,	15.00	
3 typewriter desks,	50.00	
3 typewriter chairs,	14.00	
1 armchair,	4.00	
2 Remington typewriters,	175.00	
1 safe,	85.00	
5 four section filing cabinets,	15.00	
1 five section card cabinet,	100.00	
1 two section card cabinet,	20.00	
1 five section filing cabinet,	45.00	
1 bookcase,	30.00	
1 Burroughs adding machine,	90.00	
2 electric drop lights,	8.00	
1 cabinet,	12.00	
1 pencil sharpener,	6.00	
1 umbrella stand,	2.00	
2 wastebaskets,	1.00	
1 Webster's dictionary,	8.00	
1 atlas,	8.00	
1 city directory,	4.00	
1 Beck duplicator,	10.00	
1 frame and picture,	10.00	
3 frames,	3.00	
2 lockers,	22.00	
Stationery, time books, envelopes, record books, arrest cards, arrest books, property envelopes, patrolmen's reports, etc., etc.,	600.00	
1 electric fan,	16.00	
		$1,403.00

BERTILLON ROOM.

1 Bertillon outfit complete,	$650.00
1 Century camera complete,	120.00
1 finger print stand and fixture,	8.00
1 table,	5.00
1 Fairbanks' scales,	23.00

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1 picture gallery,	$18.00	
1 mounting machine,	18.00	
2 wastebaskets,	1.50	
Photographic supplies,	30.00	
		$873.50

INSPECTORS' ROOM.

6 roll top desks,	$240.00	
6 armchairs,	24.00	
6 chairs,	12.00	
6 cuspidors,	1.50	
6 lockers,	66.00	
6 wastebaskets,	1.50	
1 cabinet,	25.00	
Books, etc.,	30.00	
6 desk lights,	18.00	
1 clock,	10.00	
2 swivel chairs,	12.00	
1 umbrella stand,	3.00	
1 flashlight,	1.00	
5 letter boxes,	5.00	
2 tables,	4.00	
		$453.00

CHIEF INSPECTOR'S ROOM.

1 desk,	$45.00	
1 safe,	40.00	
1 electric drop light,	5.00	
1 swivel chair,	24.00	
4 chairs,	8.00	
2 frames,	1.00	
1 city directory,	4.00	
1 cuspidor,	1.00	
1 wastebasket,	.50	
1 umbrella stand,	3.00	
1 table,	5.00	
3 letter files,	3.00	
		$139.50

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DEPUTY CHIEF'S ROOM.

1 desk,	$15.00	
1 swivel chair,	5.00	
3 armchairs,	6.00	
1 safe,	25.00	
2 relic cabinets,	100.00	
2 revolving bookcases,	12.00	
1 box of blanks,	2.00	
1 clock,	8.00	
1 cuspidor,	.50	
1 drop light,	3.00	
1 locker,	11.00	
Pictures,	3.00	
1 city directory,	4.00	
		$194.50

CAPTAINS' ROOM.

1 desk,	$35.00	
1 swivel chair,	6.00	
1 armchair,	2.00	
1 cuspidor,	.50	
1 wastebasket,	.50	
1 locker,	11.00	
1 electric drop light,	5.00	
Frames, etc.,	20.00	
		$80.00

SIGNAL ROOM.

1 clock,	$15.00	
2 swivel chairs,	10.00	
2 frames,	1.00	
1 wastebasket,	.50	
2 lockers,	22.00	
		$48.50

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GENERAL OFFICE.

4 swivel chairs,	$20.00	
1 city directory,	4.00	
1 arrest book,	10.00	
1 wastebasket,	.50	
1 clock,	16.00	
2 cuspidors,	1.00	
3 frames,	10.00	
1 table,	10.00	
		$71.50

LIEUTENANTS' ROOM.

2 desks,	$35.00	
2 swivel chairs,	8.00	
1 table,	2.00	
1 electric drop light,	5.00	
1 locker,	11.00	
		$61.00

EMERGENCY ROOM.

1 table,	$20.00	
1 stand,	10.00	
1 bowl stand,	10.00	
1 steam sterilizer,	10.00	
Drugs, etc.,	10.00	
		$60.00

MATRONS' ROOM.

1 desk,	$15.00	
2 rockers,	10.00	
2 armchairs,	4.00	
3 rugs,	60.00	
1 mirror,	4.00	
1 stand,	2.00	
1 leather couch,	16.00	
1 bureau,	4.00	
1 stand,	1.00	
1 clock,	5.00	
		$121.00

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MEN'S DETENTION ROOMS.

2 couches,	$10.00	
2 hair mattresses,	20.00	
2 pillows,	4.00	
4 chairs,	4.00	
		$38.00

WOMEN'S DETENTION ROOMS.

2 beds, springs, mattresses, etc.,	$50.00	
4 chairs,	8.00	
		$58.00

WOMEN'S LOCKUP.

6 mattresses,	$32.00	
6 pillows,	5.00	
		$37.00

MEN'S LOCKUP.

1 clock,	$8.00	
		$8.00

COURT ROOM.

Furniture,	$520.00	
		$520.00

JUDGE'S ROOM.

1 desk,	$15.00	
4 armchairs,	6.00	
1 cuspidor,	.50	
		$21.50

CLERK OF COURT.

1 table,	$10.00	
1 chair,	2.00	
1 electric lamp,	8.00	
		$20.00

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PROSECUTING ATTORNEY'S ROOM.

1 desk,	$20.00	
1 swivel chair,	5.00	
2 armchairs,	4.00	
		$29.00

JUVENILE COURT ROOM.

1 table,	$9.00	
2 benches,	24.00	
2 chairs,	4.00	
		$37.00

SERGEANTS' ROOM.

6 flat top desks,	$48.00	
6 armchairs,	12.00	
2 chairs,	3.00	
6 wastebaskets,	1.50	
6 cuspidors,	1.50	
2 frames,	1.00	
3 maps,	8.00	
		$75.00

LOCKER ROOM.

139 lockers,	$1,202.00	
30 chairs,	30.00	
1 water filter,	12.00	
		$1,244.00

VICE SQUAD ROOM.

3 desks,	$39.00	
6 chairs,	12.00	
1 table,	5.00	
3 lockers,	33.00	
		$89.00

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ASSEMBLY ROOM.

1 table,	$18.00	
38 chairs,	47.00	
1 blackboard,	18.00	
3 frames,	3.00	
6 wire nets for lights,	3.00	
		$89.00

RECORD ROOM.

1 Neostyle machine,	$30.00	
1 cloth chest,	18.00	
1 cabinet,	10.00	
Shelves,	38.00	
		$96.00

REVOLVER RANGE.

Revolver range,	$350.00	
Ammunition, 30,000 rounds,	378.00	
		$728.00

EQUIPMENT.

160 revolvers,	$1,600.00	
160 badges,	160.00	
160 pairs handcuffs,	600.00	
6 superior officers' badges,	48.00	
11 inspectors' badges,	18.00	
260 belts,	250.00	
160 clubs,	100.00	
160 parade clubs,	160.00	
160 parade tassels,	75.00	
160 leaders,	75.00	
300 signal box keys,	60.00	
160 flash lights,	160.00	
175 diaries,	131.25	
160 belts and holsters,	224.00	
200 copies of rules and regulations,	100.00	
275 emblems for caps,	137.50	
Uniform cloth,	250.00	
Buttons, batteries, etc.,	100.00	
		$4,248.75

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STOREROOM.

1 American flag,	$7.00	
1 linen box,	2.00	
1 iron bed and spring,	2.00	
1 wooden bed and spring,	2.00	
1 mattress,	2.00	
75 feet of hose,	4.00	
1 hose reel,	4.00	
1 coal hod,	1.00	
2 shovels,	1.00	
1 wheelbarrow,	1.50	
2 cupboards,	10.00	
1 mowing machine,	2.50	
1 grass hook,	1.00	
16 lockers,	75.00	
1 Fairbanks' scales,	5.00	
20 drinking cups,	2.00	
Paper cups,	15.00	
		$137.00

JANITORS' SUPPLIES.

1 barrel liquid soap,	$30.00	
20 bars Ivory soap,	1.00	
6 gallons exterminating gas,	7.50	
10 gallons disinfectant,	15.00	
2 gallons Egyptian spray,	3.00	
30 lbs. Dutch Cleanser,	1.50	
8 ash cans,	16.00	
1 extension ladder,	6.00	
2 step ladders,	10.00	
1 barrel soap,	30.00	
½ barrel Carboline,	35.00	
Mops, handles, floor brushes, etc.,	15.00	
		$169.00

GARAGE.

1 Model "R" automobile patrol,	$3,200.00
1 Model "G" automobile patrol,	2,800.00
1 Model "F" automobile patrol,	700.00

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1 Model "R" touring car,	$1,000.00	
1 Ford touring car,	650.00	
1 set of tools,	40.00	
4 lockers,	20.00	
1 workbench,	25.00	
87 feet of water hose,	8.00	
50 pounds cotton waste,	2.50	
1 Bowser gasoline tank,	200.00	
1 air pump outfit,	215.00	
7 extra shoes for autos complete,	310.00	
1 extra inner tube,	3.00	
1 lap robe,	5.00	
700 feet of rope,	14.00	
3 stretchers,	20.00	
2 sets grappling irons,	5.00	
5 lanterns,	2.50	
25 gallons of oil,	10.00	
50 gallons of gasoline,	8.00	
1 barrel of grease,	28.00	
1 cupboard for oil and gasoline,	23.00	
3 pictures,	3.00	
2 desks,	26.00	
4 chairs,	12.00	
5 sets of tire chains,	12.50	
1 set of pulley blocks,	4.00	
1 vise,	4.00	
200 feet of tire chain,	20.00	
Sponge, chamois, and pail,	4.00	
1 water cooler,	2.00	
1 electric vulcanizer,	24.00	
3 auto drip pans,	7.50	
82 iron stakes,	41.00	
2,000 feet of rope,	20.00	
1 ambulance basket,	4.00	
1 hand grinder,	7.50	
1 drill press,	16.00	
		$9,496.50

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CORRIDORS, ETC.

3 mats,	$16.00	
12 cuspidors,	8.00	
3 benches,	36.00	
1 water filter,	12.00	
Linoleum in building,	480.00	
Shades,	95.00	
		$647.00

BICYCLE ROOM.

10 bicycles,	$250.00	
1 bicycle rack,	2.50	
		$252.50

STATION NO. 2, INDIAN ORCHARD.

1 roll top desk,	$14.00
2 desk chairs,	8.00
5 chairs and mirror,	4.00
1 clock,	5.00
1 iron bed and spring,	4.00
1 mattress, blankets, and pillows,	3.00
1 bedspread and towels,	1.50
1 step ladder,	1.00
1 dust pan and brushes,	.50
3 mops and pails,	1.00
5 brooms,	2.00
2 bicycles,	15.00
10 ash cans,	17.50
1 stretcher and grappling irons,	5.00
3 lanterns,	1.50
9 lockers for patrolmen,	220.00
1 screen door and windows,	6.00
1 arrest book and stationery,	2.00
1 set of tools,	.50
3 oil cans,	1.00
25 tons of coal,	185.00

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2 feet of wood,	2.00	
1 coal shovel,	.50	
1 patrol wagon,	80.00	
1 patrol harness,	10.00	
1 piece of hose,	1.00	
		$591.00

RECAPITULATION.

Court Street property,	$20,000.00
Court Street building,	116,000.00
Indian Orchard property and building,	4,000.00
Police signal system,	12,000.00
Commissioners' office,	150.00
Chief's office,	233.50
Clerk's office,	1,403.00
Bertillon room,	873.50
Inspectors' room,	453.00
Chief inspector's room,	139.50
Deputy chief's room,	189.50
Captain's room,	80.00
Signal room,	48.50
General office,	71.50
Lieutenants' room,	61.00
Emergency room,	60.00
Matrons' room,	121.00
Men's detention rooms,	38.00
Women's detention rooms,	58.00
Women's lockup,	37.00
Men's lockup,	8.00
Court room,	520.00
Judge's room,	21.50
Clerk of court,	20.00
Prosecuting attorney's room,	29.00
Juvenile court room,	37.00
Sergeant's room,	75.00
Locker room,	1,244.00
Vice squad room,	89.00
Assembly room,	89.00
Record room,	96.00

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Revolver range,	728.00	
Equipment,	4,248.75	
Storeroom,	137.00	
Janitors' supplies,	169.00	
Garage,	9,491.50	
Corridors, etc.,	647.00	
Bicycle room,	252.50	
Station No. 2, Indian Orchard,	591.00	
		$174,510.25

Respectfully submitted,

WM. J. QUILTY,

Chief of Police.

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WATER COMMISSIONERS' REPORT

WATER COMMISSIONERS' OFFICE.
121 BRIDGE STREET,
SPRINGFIELD, MASS., December 29, 1913.

To the City Council of the City of Springfield, Mass.

GENTLEMEN:—The Board of Water Commissioners herewith submits its fortieth annual report, being for the year ending November 30, 1913.

FINANCIAL.

The total receipts of the water department during 1913 from all sources were $415,233.04. Of this, the sum of $359,274.81 was received from the sale of water. This amount is an increase of $25,446.14 over the preceding year. As all water since April first has been sold by meter measurement, and not as heretofore partially from fixed rates, it is difficult to use this figure in comparison to show the business done. The ordinary extension of mains into districts not heretofore supplied cost $28,079.06. For the retirement of the Little River serial bond issues $74,000.00 were paid and $22,746.69 were appropriated for the Ludlow Sinking Fund. Interest amounting to $14,375.00 on Ludlow bonds and $67,885.00 on Little River bonds, a total of $82,260.00, was paid. A total of $179,006.69 was expended on account of bonds, for interest, sinking fund and retirements, during the year.

The total bonded indebtedness of the department is $2,359,000.00. Of this amount $275,000.00 remains on the Ludlow issue, $1,834,000.00 on the Little River issues, and

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$250,000.00 which was issued during the current year for general improvements in the system. There are in the sinking fund to retire the Ludlow issue, $80,180.08, which amount deducted from the total leaves a net indebtedness of $2,278,819.92. The $200,000.00 Ludlow issue which became due on April first was retired from the amounts set aside for this purpose in the sinking fund. A total of $274,000.00 was expended from sinking fund and revenue to retire bonds during 1913, and the net reduction of bonded indebtedness for the year was $24,000.00. In addition to the expenditures of the year from the receipts, further extensions have been paid for from the bonds issued during the year.

ACCOUNTING SYSTEM.

It has been realized for some time that the accounting system of the department, which was fully adequate for a city of a few years ago, has been outgrown in the same manner as the piping and distribution system of a few years ago has been outgrown, and should be modernized along the lines of approved methods now in use by the best managed public utilities. After a careful investigation, Mr. William J. Hagenah of Chicago, whose services have been sought by many public utilities of a similar nature, was engaged. Mr. Hagenah with his assistant, Mr. Sidney S. Barker, after a careful study of the department has recommended to your Board a system of accounting and made many suggestions which we feel will be of much assistance in our work. While probably it will be impossible entirely to classify for the year just closed the accounts represented in this report under the system which he has recommended, many of the suggestions have been incorporated and the financial statement of the department will be found in the Registrar's report. Your attention is particularly called to these statements and to the financial situation of the department which is given more in detail there than is possible in this report.

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SUPPLIES.

All of the water used during the year by the city of Springfield has been drawn from the Little River supply. No restrictions have been placed on the use of water and the quality has been excellent at all times. The policy of planting white pines has been continued on the Little River watershed, forty-five thousand having been set out during the year. Some additional land on the watershed has been purchased during the year.

The Ludlow reservoir water which is used by the town of Ludlow was filtered throughout the entire summer season of bad water, and has made a satisfactory supply for this town. The northwestern section of the town of Wilbraham, adjoining this city, was disconnected from the Ludlow system and made a part of the distribution system of the city of Springfield on April first. During the year emergency connections have been maintained with the water systems of the towns of West Springfield and Longmeadow. The towns of Agawam and East Longmeadow have completed connections during the year for regular supplies; and an emergency connection to Chicopee was furnished for a few days.

METERS.

During the year the last rated or unmetered services on private supplies were metered and all water is now sold in this manner. The total number of meters installed during the year has been 1572 and the total number of meters in the city is 12,872. A year ago the Board called attention to the very large use of water by the municipality and we desire at this time again to call your attention to this matter. The largest user of water is the City, and while no criticism is offered on many of the uses, water is used in quantities which would be considered excessive if it were necessary that payment be made therefor. This matter if properly adjusted would equalize the rates and remove the burden now borne by the small water users.

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GENERAL.

The Massachusetts legislature authorized this department to issue $350,000.00 in bonds for the improvement of its system. This Act is given in full in Appendix I. Of the above amount, $250,000.00 have been issued at 4¼%. The details of the expenditure of this money are given in the Registrar's report.

During the year, the construction of the new service building, the grading of the yard and the installation of equipment have been accomplished, and the Superintendent's division has been installed in the new property at 69 Colton street. The building is modern and adequate for all present and immediate future needs. The grounds have been laid out in such a manner as to facilitate the handling of large amounts of pipe and materials.

The property of this department, lying between Bridge street and Wight avenue, will, under the terms of the sale to the Broadway Realty Trust, be delivered to them in July, 1914. This will terminate over forty years of occupancy at this location. This brings up many questions in economic operation which will be very difficult of solution, and it may be some time before it will be possible to house the department as adequately as at present.

The reports of the Registrar, Superintendent and Chief Engineer, with their accompanying appendices, give the details of the operation of the various divisions and are attached to and made a part of this report.

Respectfully submitted,

FRED R. BROWN, *Chairman,*
H. C. PUFFER,
JOHN A. DENISON, *Mayor.*
Board of Water Commissioners.

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WATER REGISTRAR'S REPORT

DECEMBER 29, 1913.

To the Board of Water Commissioners of the City of Springfield, Mass.

GENTLEMEN:—The following report of the Water Registrar for the year ending November 30, 1913, is herewith submitted.

The financial statements presented for the past year are made, as far as possible, in accordance with the form suggested by Mr. William J. Hagenah, Public Utility Statistician, of Chicago, who, under instructions from your Board, has made an investigation of the accounting system of the department. As this investigation was made after the close of the fiscal year, it is obvious that the operation of the past year cannot be presented entirely in accordance with the new classification as recommended.

The system of accounting and classification, as recommended to your Board by Mr. Hagenah, when fully installed and in operation, will bring this division of the department's activities fully up to the standard required for modern public utilities. In order that this new system may take effect from December 1, 1913, much re-classification of office records will be necessary, although the changes in the books and records, as planned by the Registrar during the last few years, but not yet completed, prove to be in harmony with the requirements of the new classification.

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In accordance with the recommendation made two years ago by the State Bureau of Statistics accountant, the December warrant of the November, 1913, bills has been included in the cash expenses of the fiscal year just closed. In the cash statement herewith submitted the approved bills paid cover thirteen months, and the pay rolls paid include the last pay roll of November. In succeeding reports each year's business will represent only twelve months' transactions.

INCOME AND PROFIT AND LOSS ACCOUNT,
Year ending November 30, 1913.

Operating Revenue.

I.	Earnings from Sales to Private Consumers,..	$375,558.61	
II.	Less Abatements, Refunds, etc.,.....	1,356.74	
			$374,201.87
III.	Earnings from Sales to City of Springfield:—		
	Earnings based on prescribed rates for water supplied were $71,521.74; but no payments were made therefor, as per City Ordinance,.....		.....
	Water used by Water Department and included in operating expenses,.....		107.81
	Total Operating Revenue (forward),..		$374,309.68

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Total Operating Revenue (forward),..		$374,309.68

Operating Expenses.

IV. Source of Supply,.....	$34,278.15	
V. Transmission Expense,.....	3,514.25	
VI. Distribution Expense,.....	25,609.95	
VII. Commercial Expense,.....	7,011.39	
VIII. General Expense,.....	35,934.17	
IX. Undistributed Expenses,.....	11,387.29	
X. Renewals and Depreciation,.....	45,626.99	
Total Operating Expenses,.....		163,362.19
Operating Profit,.....		$210,947.49
XI. Non-Operating Income,.....		12,348.13
Gross Income,.....		$223,295.62

Deductions from Gross Income.

XII. Interest on Funded Debt,.....	$104,682.44	
Total Deductions,.....		104,682.44
Net Income,.....		$118,613.18

DETAILS OF ITEMS IN PROFIT AND LOSS ACCOUNT.

Operating Revenue.

	Earnings.	Refunds and Abatements.	Net Revenue.
Earnings from Water rates—annual,..	$898.87	$551.03	$347.84
" " Water rates—meter,...	368,974.28	686.61	368,287.67
" " Water rates—hose and fountains,.....	112.50	10.00	102.50
" " Water rates—builders,.	2,575.04	58.80	2,516.24
" " Water rates—miscellaneous,.....	2,997.92	50.30	2,947.62
Total Earnings from Private Consumers as per Items I. and II.,...	$375,558.61	$1,356.74	$374,201.87

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Earnings from Sales to City of Springfield:—		
Almshouse and annexed buildings,.....		$390.50
Fire department buildings,.....	$616.65	
Fire department (hydrant service); 1,518 fire hydrants (average during year) at $25 each,....	37,950.00	
		38,566.65
Forestry department (buildings),.....		30.00
Highway department (city yards, etc.),.....	$63.50	
Highway department (building purposes),.....	237.90	
		301.40
Municipal buildings (old),.....		33.00
Municipal group (heating plant),.....		84.70
Park department (fountains, parks and hose;— except Forest Park),.....	$637.00	
Park department (park uses at Forest Park),.....	261.35	
		898.35
Police department (buildings),.....		125.65
Public playgrounds,.....		122.00
Pauper department (Wayfarers' lodge),.....		36.00
Scavenger department,.....		86.00
Scavenger department (City Reduction plant),...		2,811.09
School department (buildings),.....		13,854.05
Sewer department (building purposes),.....	$214.75	
Sewer department (flushing); 544 flush gates at $10 each,.....	5,440.00	
		5,654.75
Watering streets department:—523,840 linear feet of street sprinkled at 1½ cents per foot,...		7,857.60
Watering tanks and drinking fountains,.....		670.00
Total Earnings from Sales to City of Springfield, as per Item III.,.....		$71,521.74

☞ No payment is made for this amount by the City, as per city ordinance.

Water used by Water Department and charged in Operating Expense Accounts,.....	$107.81

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Operating Expenses.

Source of Supply:—		
Ludlow Supply, Operating,	$486.15	
Little River Supply, Operating,	7,494.39	
Ludlow Supply, Sanitation,	255.75	
Little River Supply, Sanitation,	5,842.21	
Ludlow Supply, Purification,	2,193.08	
Little River Supply, Purification,	14,523.99	
Maintenance, Ludlow Supply,	3,138.92	
" Little River Supply,	343.66	
Total Source of Supply, as per Item IV.,		$34,278.15
Transmission Expense:—		
Maintenance, Provin Mountain Reservoir, Structures and Equipment,	$2,864.53	
Maintenance, Ludlow Transmission Main No. 1,	92.11	
Maintenance, Ludlow Transmission Main No. 2,	214.33	
Maintenance, Little River Transmission Main,	343.28	
Total Transmission Expense, as per Item V.,		$3,514.25
Distribution Expense:—		
Meter Installation,	$1,000.00	
Street Division, Supplies and Expenses, / Meter and Fittings Division, Supplies and Expenses,	2,790.07	
Consumers' Premises Expenses,	82.41	
Street Division, Labor, / Meter and Fittings Division, Labor,	5,141.46	
Miscellaneous Operating Labor,	1,275.15	
Maintenance, Fountains and Troughs,	28.04	
" Sprinkler Supply Pipes,	28.76	
" Meters,	3,459.26	
" Services,	2,440.36	
" Hydrants,	3,968.65	
" Mains, Gates and Valves,	4,397.13	
" Buildings, Fixtures and Grounds,	138.00	
Heat and Light, Colton Street,	860.66	
Total Distribution Expense, as per Item VI.,		$25,609.95

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Commercial Expense:—		
Reading meters, inspecting consumers' premises, etc.,	$7,011.39	
Total Commercial Expense, as per Item VII.,		$7,011.39
General Expense:—		
Salaries of Officers, Clerks, etc.,	$18,264.23	
Engineering, Salaries and Expenses,	9,686.72	
Printing and Binding,	2,933.91	
Stationary and Postage,	718.64	
Furniture and Fixtures Expense,	299.69	
Lighting,	33.70	
Heating, etc.,	465.10	
Expense, General,	808.13	
Office Building Expense,	1,532.34	
Telephone Service,	766.80	
Legislative Expense,	424.91	
Total General Expense, as per Item VIII.,		$35,934.17
Undistributed Expenses:—		
Injuries and Damages,	$44.05	
Utility Equipment Expense, Automobiles and Trucks,	6,870.47	
Utility Equipment Expense, Teams,	2,732.63	
Stores Department Expense,	1,740.14	
Total Undistributed Expenses, as per Item IX.,		$11,387.29
Renewals and Depreciation:—		
Distribution Mains, Renewals,	$19,921.73	
Dismantling Pond Pumping Equipment,	829.21	
Pond Pumping Equipment Dismantled, net loss,	24,876.05	
Total Renewals and Depreciation, as per Item X.,		$45,626.99

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Non-Operating Income.

Received for Rents of Real Estate, Buildings, etc., net,		$3,095.41
" " Sales of Wood, Sand, Grass, etc., net,		1,353.32
" " Sales of Material, Work for Consumers on Meters, Services, etc., and for other City Departments, as well as for Private Parties,	$53,972.21	
Less Abatements per City Collector,	442.66	
	$53,529.55	
Cost of above to Water Department, as committed to City Collector,	45,630.15	
		7,899.40
Total Non-Operating Income, as per Item XI.,		$12,348.13

Deductions from Gross Income.

Interest on Funded Debt:—		
On Ludlow Supply Bonds, to date,	$16,104.17	
On Little River Supply Bonds, to date,	96,495.42	
		$112,599.59
Less Interest Received on Sinking Funds (account Ludlow Supply Bonds),		7,917.15
Total Deductions, as per Item XII.,		$104,682.44

Additions to Plant, Property and Equipment During Present Year.

Real Estate, Colton Street Property, including land, buildings, etc.,	$98,046.90	
" " Borden Brook reservoir (caretaker's house),	4,691.01	
		$102,737.91
Distribution Mains—Extension,		74,272.30
Hydrants and Gates—Extension,		6,353.28
Meters—Extension,		8.50
Forestation at Little River Source of Supply,		1,870.03
Automobiles, Teams and Fixtures,		3,236.86
Ludlow Town Supply,		13,404.33
Little River Supply—Construction,		22,607.78
Total Additions to Plant, Property and Equipment During Present Year,		$224,490.99

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BALANCE SHEET, NOVEMBER 30, 1913.

Assets:—		
Property and Plant, November 30, 1912,	$4,942,939.20	
Construction since November 30, 1912,	224,490.99	
Stock and Stores,	113,495.85	
Accounts Receivable and Cash,	200,611.98	
Sinking Funds,	80,180.08	
		$5,561,718.10
Liabilities:—		
Bonded Debt,	$2,359,000.00	
City of Springfield Equity,	2,599,117.55	
Current Liabilities,	125,000.00	
Reserves and Accrued Interest,	30,339.59	
Surplus,	448,260.96	
		$5,561,718.10

WATER WORKS CASH ACCOUNT.—1913.

(Exclusive of Little River Supply Fund.)

To collections paid City Treasurer by City Collector (total cash receipts),	$415,233.04	
To refund of amounts paid account Little River Supply—Construction,	9,575.61	
To transfer from Little River Supply bond loan of 1913,	208,000.00	
		$632,808.65
By approved bills and pay rolls paid by City Treasurer, as follows:—		
Total bills approved and paid,	$324,729.56	
Total pay rolls approved and paid,	129,072.40	
	$453,801.96	
By interest on water bonds paid by City Treasurer, as follows:—		
Account Ludlow Supply,	$14,375.00	
Account Little River Supply,	67,885.00	
	82,260.00	
By payment on bonds due, on account of Little River Supply,	74,000.00	
Total cash payments,	$610,061.96	
By surplus balance for sinking fund (account Ludlow Supply bonds),	22,746.69	
		$632,808.65

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DIVISION OF WATER WORKS EXPENDITURES.—1913.

From Bond Funds.			
Distribution Mains—Extension (unusual),		$46,193.24	
Real Estate—Colton Street (property, buildings, equipment, etc.),		98,046.90	
Ludlow Town Supply,		13,404.33	
Caretaker's house, Borden brook,		4,691.01	
Renewal work,—State street and other improvement work as per 1911 schedule,		19,921.73	
Little River Construction bills originally paid from Water Works revenue (now refunded),		9,575.61	
Stock purchased and on hand,		16,167.18	
			$208,000.00
From Revenue Funds.			
Maintenance (usual),	$118,687.34		
Less value of water and house rental charged (does not appear as cash),	1,575.15		
		$117,112.19	
Repayment of 1912 temporary loan from Little River funds,		12,000.00	
Sales—Cost,		45,630.15	
Construction:			
Street extensions—ordinary,	$28,079.06		
Gates and hydrants—extension,	6,353.28		
Meters—extension,	8.50		
Reforestation, Little river,	1,870.03		
Autos, teams and furniture and fixtures,	3,236.86		
	$39,547.73		
Less credits,	861.16		
		38,686.57	
Interest payments,		82,260.00	
Bond payments,		74,000.00	
Stock purchased and on hand,		19,641.55	
Surplus for sinking fund,		22,746.69	
November, 1912, bills and pay rolls charged 1912 work, paid from 1913 cash receipts,		12,731.50	
			424,808.65
Total,			$632,808.65

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LITTLE RIVER SUPPLY FUND.—1913.

To cash balance in hands of City Treasurer, November 30, 1912,	$41,325.14	
To cash reversion from sundry sales of material and supplies,	416.87	
To refund of amounts paid, not chargeable to Little River Construction ($6,900 for Colton Street property in 1912 and 1913, and $12,000 temporary loan in 1912),	18,900.00	
To cash received from sale of 250 water bonds at $1,000 each (special bond loan of 1913),	250,000.00	
		$310,642.01
By approved bills and pay rolls paid by City Treasurer, 1913 (exclusive of transfer below):—		
Total ordinary bills approved and paid,	$41,678.83*	
Total pay rolls approved and paid,	245.82	
	$41,924.65	
By transfer to Water Works cash (from special bond loan of 1913),	208,000.00	
		$249,924.65
To cash balance in hands of City Treasurer, November 30, 1913,	60,717.36	
		$310,642.01

* This amount includes $9,575.61 refund to Water Works cash for Little River Construction bills paid therefrom in 1913.

SINKING FUND.—1913.

(Account Ludlow Supply Bonded Debt.)

Balance in hands of sinking fund commissioners, November 30, 1912,	$226,717.30
Net surplus transferred from water works receipts of 1912,	22,798.94
Interest earnings and additions credited by sinking fund commissioners, 1913 (net),	7,917.15
Amount forward,	$257,433.39

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Amount forward,.....	$257,433.39
Less amount paid for Ludlow Supply bonds maturing April 1, 1913,.....	200,000.00
Balance in hands of sinking fund commissioners, November 30, 1913,.....	$57,433.39
Available net surplus from water-works receipts of 1913,.....	22,746.69
Total amount available, November 30, 1913,.....	$80,180.08

BONDED DEBT.—1913.

Ludlow Supply Bonds:—		
125 water bonds (par value $1,000 each), bearing interest at 3½% (payable semi-annually, April 1 and October 1), issued in 1890 for Ludlow reservoir improvement, and all due October 1, 1920,.....		$125,000.00
150 water bonds (par value $1,000 each), bearing interest at 4 per cent. (payable semi-annually, April 1 and October 1), issued in 1893 for Ludlow Main No. 2, and due October 2, 1923,.....		150,000.00
Total account Ludlow supply, November 30, 1913,....		$275,000.00
Little River Supply Bonds:—		
270 serial water bonds (par value $1,000 each), bearing interest at 4 per cent. (payable semi-annually, July 1 and January 1), dated January 1, 1907; $10,000 payable annually beginning January 1, 1910, and ending January 1, 1936,.....$270,000.00		
Less following payments:—		
January 1, 1910, $10,000.00		
January 1, 1911, 10,000.00		
January 1, 1912, 10,000.00		
January 1, 1913, 10,000.00	40,000.00	
Net amount due on first issue,.....	$230,000.00	
Amounts forward,.....	$230,000.00	$275,000.00

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Amounts forward,.....		$230,000.00	$275.000.00
270 serial water bonds (par value $1,000 each), bearing interest at 4 per cent. (payable semi-annually, July 1 and January 1), dated January 1, 1908; $10,000 payable annually beginning January 1, 1911, and ending January 1, 1937,.....$270,000.00			
Less following payments:—			
January 1, 1911,	$10,000.00		
January 1, 1912,	10,000.00		
January 1, 1913,	10,000.00	30,000.00	
Net amount due on second issue,.....		240,000.00	
1,080 serial water bonds (par value $1,000 each), bearing interest at 3½ per cent. (payable semi-annually July 1 and January 1), dated January 1, 1909; $40,000 payable annually beginning January 1, 1912, and ending January 1, 1938, $1,080,000.00			
Less following payments:—			
January 1, 1912,	$40,000.00		
January 1, 1913,	40,000.00	80,000.00	
Net amount due on third issue,.....		1,000,000.00	
378 serial water bonds (par value $1,000 each), bearing interest at 3½ per cent. (payable semi-annually July 1 and January 1), dated January 1, 1910; $14,000 payable annually beginning January 1, 1913, and ending January 1, 1939,.....$378,000.00			
Less following payment:—			
January 1, 1913,.....		14,000.00	
Net amount due on fourth issue,.....		364,000.00	
Amounts forward,.....		$1,834,000.00	$275,000.00

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Amounts forward,	$1,834,000.00	$275,000.00
250 serial water bonds (par value $1,000 each), bearing interest at 4¼ per cent. (payable semi-annually May 1 and November 1), dated November 1, 1913; $10,000 payable annually beginning November 1, 1914, and ending November 1, 1938 (Westfield Little River Water Loan, Act of 1913),	250,000.00	
Net total account Little River Supply, November 30, 1913,		2,084,000.00
Total bonded debt, November 30, 1913,		$2,359,000.00

STOCK AND STORES ON HAND NOVEMBER 30, 1913.

As per Inventory:—

Cast-iron pipe stock,	$70,614.13	
Engineering apparatus,	983.64	
Filter supplies (Ludlow),	1,153.02	
Meter stock,	11,259.30	
Stores and supplies,	2,303.80	
Tools and machines,	10,414.90	
Wrought-iron pipe stock,	7,241.19	
		$103,969.98
Little river operating supplies:—		
At Borden brook reservoir,	$1,460.25	
At Provin mountain reservoir,	209.00	
At North Blandford,	1,139.00	
At Filters (West Parish),	6,717.62	
		9,525.87
Total,		$113,495.85

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APPENDICES.—1913.

In the appendices to this report will be found tabulated statistics, together with the summary in form recommended by the New England Water Works Association.

Respectfully submitted,

A. R. HATHAWAY,

Water Registrar.

BOARD OF WATER COMMISSIONERS, December 29, 1913.

Accepted and ordered made a part of the report of the Board to the City Council.

A. R. HATHAWAY, *Clerk.*

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SUPERINTENDENT'S REPORT

DECEMBER 29, 1913.

To the Board of Water Commissioners of the City of Springfield, Mass.

GENTLEMEN:—I herewith submit the fortieth annual report of the Superintendent, being for the year ending November 30, 1913.

The amount of pipe laid, the number of gates and fire hydrants set, the amount of pipe discontinued, and the number of gates and fire hydrants taken out, are shown as follows:—

MAIN PIPE, GATES AND HYDRANTS ADDED—1913.

NUMBER.	Extensions.	Renewals.	Private.	TOTALS.
Feet of pipe laid, 1913,.....	54,043	15,652	1,603	71,298
Added,—account of previous years,.....	6	9	88	103
Total pipe added, 1913,....	54,049	15,661	1,691	71,401
Gates set, 1913,.....	412	82	41	535
Added,—account of previous years,.....	1	0	0	1
Total gates added, 1913,...	413	82	41	536
Fire hydrants set, 1913,.....	127	29	6	162
Added,—account of previous years,.....	1	0	100	101
Total fire hydrants added, 1913,	128	29	106	263

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MAIN PIPE, GATES AND HYDRANTS TAKEN OUT OR ABANDONED—1913.

NUMBER.	TOTALS.
Feet of pipe,	17,510
Gates,	104
Fire hydrants,	49

There are now in use 205.31— miles of supply and distribution mains, a net addition of 10.20— miles the past season.

We have laid something over 54,000 feet of main pipe at an expense of $74,272.30, including ordinary extensions, with gates, hydrants and connections; also about 15,600 feet of main pipe replacing old, at a cost of $19,921.73, also including gates, hydrants and connections.

There still remain several miles of cement-lined mains in our system, which we have not been able as yet to eliminate, owing to rush of other work, but a good beginning has been made in replacing the 24″ main between the city proper and Indian Orchard, the work having been accomplished to a point nearly opposite the main entrance to the Almshouse on State street. It will be taken up again at that point early in the spring and continued to Ralph street, beyond which point your Board has not yet decided what shall be done.

Our distribution system has been much improved this year by the laying of quite a large amount of 12″ mains connecting dead ends and reinforcing weak sections, paralleling small mains in some places, replacing them in others, and in one place,—viz., St. James avenue, between the Boston & Albany and Highland Division, New York, New Haven & Hartford tracks, —laying a new main, connecting East Springfield with the McKnight district, thus materially reinforcing the latter's fire protection.

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One hundred fifty-six new hydrants have been installed on lines of new extensions and replacements, of which number 127 are additional and 29 renewals.

Five hundred thirty-five new gates have been set, of which number 453 are additional and 82 renewals.

Eight hundred seven new taps for service pipes have been made, including 265 renewals, making a total of 542 taps added; 66 were abandoned and cut off, leaving a net total increase of 476 for the year. The revised total number of taps now connected to the system is 13,667.

There have been 116 leaks in service pipes (22 of these leaks were at corporation cocks, and 12 were on lead pipe or connections), the total cost of repairing same being $864.47, an average of $7.45+ per leak. The winter of 1912 and 1913 was very open, and there were no service pipes frozen as in the previous winter.

There have been 38 leaks in main pipes during the year, an average of 0.19— per mile of main pipe in use. The following table shows the kinds and sizes of pipe in which the leaks occurred:—

KIND AND SIZE OF PIPE.	2″	3″	4″	6″	8″	10″	12″	16″	24″	30″	36″	42″	TOTALS.
Steel,.....	..	..	..	..	..	..	..	..	..	1	..	3	4
Cast-iron,..	..	..	1	9	6	1	4	4	..	1	1	..	27
Cement-lined,....	..	..	1	..	..	..	..	..	2	..	..	..	3
Wrought-iron,.....	2	2	..	..	..	..	..	..	..	..	..	..	4
TOTAL LEAKS,	2	2	2	9	6	1	4	4	2	2	1	3	38

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Fourteen of these leaks were at bad joints; four were in hydrant connections; two were at Smith sleeves; and two were due to cracked pipes.

The total cost of repairing the 38 leaks was $1,306.44, averaging $34.38 per leak.

Hydrants have been regularly inspected, and repaired when necessary, the inspection including the cold weather examinations of from once a day to three times a week.

Gates have all been operated at least once during the year, and a large majority of them twice; the gate boxes have been kept raised to the surface of the street, and with the large amount of new paving which the Street Department has placed during the year, the gang has been kept very busy following the work up, but I believe there is not a buried gate box in the whole system.

The dwelling house, No. 131 Bridge street, just east of the Bridge street office, was turned over to the Broadway promoters the latter part of June, and they disposed of it and opened a driveway through its location from Bridge street to Wight place and Vernon street as a beginning toward the new street. The remainder of the Bridge street property is in good condition, and such repairs as have been necessary were made.

The executive part of the Superintendent's division moved into its new quarters at 69 to 97 Colton street about the middle of June, and immediately commenced the work of settling itself into its permanent home. It has taken no small amount of time and energy to get the different sections of the building and yard and their equipment into proper condition, but the work is now practically completed, and it is safe to say that no city in New England of the size of ours has a more finely equipped service building and yard than we can boast of. Especially is this true of the pipe yard, which, with its electric locomotive crane and concrete and railroad-iron skids, makes the handling and storage of pipe both economical and quick.

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Our machine shop and meter testing apparatus are second to none, and, with the installation of our new pipe threading machine and large meter testing tank, we are now equipped to handle and set any sized meter from the largest to the smallest.

METER WORK.

The work of metering every unmetered service in the city was practically completed on April first, there remaining only a few vacant houses to be done; there were about 3500 meters set in all, and the city is now all metered except the public buildings and other public uses, and services used only for fire protection.

We have set about 750 meters in the regular service pipe work of the department, and have repaired about 1750 old ones, which, in addition to 800 set in completing the original order, makes approximately 3300 meters handled during the year.

STATISTICS.

In the appendices to this report will be found tables showing the pipe laid, gates and hydrants set, pipe, gates and hydrants taken out, etc.

Respectfully submitted,

ALFRED E. MARTIN,

Superintendent.

BOARD OF WATER COMMISSIONERS, December 29, 1913.

Accepted and ordered made a part of the report of the Board to the City Council.

A. R. HATHAWAY, *Clerk.*

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CHIEF ENGINEER'S REPORT

DECEMBER 29, 1913.

Board of Water Commissioners, Springfield, Mass.

GENTLEMEN:—No better test of the possibilities of the new system could be planned than the conditions imposed by the four years which the Little River system has been in operation. The low and unevenly distributed rainfall has produced a severe situation which has taxed the capacities of many supplies. These conditions have not justified any restrictions on the legitimate use of water by this city and the needs of every portion of the system have been adequate.

With the growth of the city and the increase in the demands for extensions, the total amount of water used by the city in 1913 was not materially different from the amounts used in 1910, 1911 or 1912. Substantially the same amount of water has been drawn in each of the four years since it has been possible to keep accurate records. The increase in the population has been cared for by the lowered use of water per capita daily. This was 119 gallons in 1910 and 108 in 1913. The saving of water formerly wasted has been sufficient in amount to accommodate the growth of the city for four years.

It was necessary to draw water from the storage in Borden Brook reservoir on June 17th, 1913. This was over a week earlier than in any previous year. The total amount drawn, however, did not deplete the storage as much as in previous years and the year closed with the full amount restored. In the other years the reservoir has not refilled until after the close of the year. A few of the principal figures in connection with the use of water from the Little River system will be of interest in this connection:—

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Total amount of water delivered from Provin Mountain,—this includes emergency use for a few days by West Springfield and by Chicopee; all of the water used during the year by Feeding Hills, the water used by the entire town of Agawam since December first, that used by East Longmeadow since November first, and Wilbraham village since April first,.....	gallons,	3,918,990,000
Amount used by Springfield (population, 98,157), Wilbraham (number supplied 500), and Feeding Hills (number supplied 800),.....	"	3,910,020,000
Average use per day including all towns,.....	"	10,737,000
Average use per day, Springfield (including Wilbraham and Feeding Hills),.....	"	10,712,000
Maximum use. This was the same on three days, June 16, June 24, July 2,.....	"	13,500,000
Minimum use in one day, March 30,.....	"	7,000,000
Maximum rate of use (on June 23),.....	"	25,000,000
Minimum rate of use (on January 3),.....	"	2,000,000
Per capita daily: basis population 99,457,.....	"	108

There has been erected at Ludlow reservoir a steel standpipe fifteen feet deep, with a capacity of 378,000 gallons. Connections were made from the outlet of the filters to the standpipe and from it to the mains. The total cost of this improvement was $13,404.33. This has made it possible to furnish the town of Ludlow with a potable water at all times. A Venturi meter has also been installed to measure the water supplied to that portion of the town of Ludlow owned by the Ludlow Manufacturing Associates.

The service building for the superintendent's division at 69 Colton street, together with the installation of tracks, pipe-skids, crane and fence have all been completed during the year. The contractors, E. T. Davis & Son for the foundations, and Fred T. Ley & Company for the building, and the architect, Mr. H. L. Sprague, deserve commendation for their work and interest, which resulted in the completion of the building satisfactorily and promptly.

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At the Borden Brook reservoir a house is under construction for the use of the caretaker. The site selected near the gate house will enable the caretaker to respond more effectively in the regulation and control of the water needed at the filtration plant.

The death of Mr. James M. Justin on June 25th removed from the personnel of the department the efficient caretaker at the Borden Brook reservoir. His son, Mr. E. R. Justin, was appointed in his place on July 9, 1913.

The twenty-four inch cement-lined main, which at one time was the only connection between the Ludlow reservoir and the city of Springfield, has, with the extension of the city eastward, become a portion of the distribution system and a connecting link between Indian Orchard and the main business districts. A considerable portion of this main has been replaced from time to time with cast-iron pipe. There is on hand sufficient twenty-four inch pipe to replace all of this main, which, in my opinion, should be continued. While it is desirable that the carrying capacity from the Ludlow source should not be reduced, I believe that it will be more advantageous to place pipes of a smaller size in each of the streets connecting this section than to have one large carrying main as at present. I believe that if this policy is kept in mind when construction is planned in these streets that it will be possible to make extensions in streets in which there is at present no pipe, before the cement-lined main has fulfilled all the years of its usefulness.

Permanent connections have been made during the year with the town systems of East Longmeadow and Agawam. During the year water has been supplied in greater or less amounts in nine towns and cities.

The cost of filtration, together with the details of other features, which can best be given in tabular form, are given in the following appendices:—

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XII. Consumption of water by Springfield, including Wilbraham village and Feeding Hills village.
XIII. Consumption of water by Chicopee, West Springfield and East Longmeadow.
XIV. Consumption of water by Ludlow Mfg. Co's private system.
XV. Analyses of water by Massachusetts State Board of Health.
XVI. Operating details at West Parish Filters.
XVII. Operating costs at West Parish Filters.

Respectfully submitted,

ELBERT E. LOCHRIDGE,

Chief Engineer.

BOARD OF WATER COMMISSIONERS, December 29, 1913.

Accepted and ordered made a part of the report of the Board to the City Council.

A. R. HATHAWAY, *Clerk.*

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APPENDIX I.

LEGISLATIVE ACT FOR BOND LOAN OF $350,000 FOR WATER SUPPLY PURPOSES.

(ADDITIONAL TO CHAPTER 317 OF THE ACTS OF 1906 AND CHAPTER 607 OF THE ACTS OF 1912.)

[CHAPTER 462.]

AN ACT TO AUTHORIZE THE CITY OF SPRINGFIELD TO INCUR ADDITIONAL INDEBTEDNESS FOR THE USE OF ITS WATER DEPARTMENT.

Be it enacted, etc., as follows:

SECTION 1. For the purpose of paying the necessary expenses and liabilities incurred and to be incurred under the provisions of chapter three hundred and seventeen of the acts of the year nineteen hundred and six, as amended by chapter six hundred and seven of the acts of the year nineteen hundred and twelve, and for the purpose of paying the necessary expenses and liabilities arising from the purchase or taking of land and the erection thereon of buildings for the operation and administration of its water department, the city of Springfield may issue from time to time coupon or registered bonds or notes to an amount not exceeding three hundred and fifty thousand dollars, in addition to the amounts heretofore authorized by law to be issued by the city for water supply purposes. Each authorized issue of bonds or notes shall constitute a separate loan. Bonds or notes issued under authority of this act shall bear on their face the words, City of Springfield, Westfield Little River Water Loan, Act of 1913; shall be payable by such annual payments, beginning not more than one year after the date thereof, as will extinguish each loan within thirty years from its date; and the amount of such annual payment of any loan in any year shall not be less than the amount of the principal of the loan payable in any subsequent year. The said bonds or notes shall bear interest at a rate not exceeding four and one half per cent per annum, payable semi-annually; and shall be signed by the treasurer and countersigned by the mayor of the city. The city, by its mayor and treasurer, may sell the said securities at public or private sale, upon such terms and conditions as they may deem proper, but the securities shall not be sold for less than their par value.

SECTION 2. The city shall, at the time of authorizing said loan or loans, provide for the payment thereof in accordance with section one of this

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act; and when a vote to that effect has been passed by the city council, a sum, which with the income derived from water rates, will be sufficient to pay the annual expense of operating its water works and the interest as it accrues on the bonds or notes issued as aforesaid by the city, and to make such payments on the principal as may be required under the provisions of this act, shall, without further vote, be assessed by the assessors of the city annually thereafter, in the same manner in which other taxes are assessed, until the debt incurred by said loan or loans is extinguished.

SECTION 3. This act shall take effect upon its passage. [*Approved April 10, 1913.*]

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APPENDIX II.

COMPARATIVE STATEMENT OF WATER RECEIPTS SINCE 1885.

(*On annual basis of twelve months.*)

Year.	Water Rates Charged. (*During the year, only.*)		Water Rates Collected. (*Including balances forward.*)	
	Totals.	Difference.	Totals.	Difference.
1885	$93,421 60	. . . .	$90,848 05	. . . . .
1886	100,537 77	+$7,116 17	97,298 78	+$6,450 73
1887	108,140 94	+ 7,603 17	105,451 52	+ 8,152 74
1888	115,146 35	+ 7,005 41	112,581 21	+ 7,129 69
1889	126,220 72	+11,074 37	122,541 52	+ 9,960 31
1890*	133,553 28	+ 7,332 56	129,913 27	+ 7,371 75
1891	140,604 85	+ 7,051 57	136,985 11	+ 7,071 84
1892	150,515 67	+ 9,910 82	146,349 09	+ 9,363 98
1893	164,894 65	+14,378 98	160,936 78	+14,587 69
1894	167,376 11	+ 2,481 46	162,769 71	+ 1,832 93
1895	182,357 49	+14,981 38	178,421 15	+15,651 44
1896	194,069 28	+11,711 79	189,373 75	+10,952 60
1897	196,818 72	+ 2,749 44	192,132 58	+ 2,758 83
1898	209,183 12	+12,364 40	201,710 66	+ 9,578 08
1899	220,673 14	+11,490 02	213,061 24	+11,350 58
1900	225,798 96	+ 5,125 82	218,741 57	+ 5,680 33
1901*	233,227 98	+ 7,429 02	218,815 05	+ 73 48
1902*	231,594 98	— 1,633 00	223,903 08	+ 5,088 03
1903	245,358 59	+13,763 61	238,673 13	+14,970 05
1904	249,779 77	+ 4,421 18	244,767 77	+ 6,094 64
1905	259,133 06	+ 9,353 29	252,747 50	+ 7,979 73
1906*	263,746 17	+ 4,613 11	260,186 99	+ 7,439 49
1907*	267,263 78	+ 3,517 61	255,109 17	— 5,077 82
1908*	293,896 28	+26,632 50	291,108 15	+35,998 98
1909	302,230 17	+ 8,333 89	298,449 48	+ 7,341 33
1910	327,333 58	+25,103 41	322,845 84	+24,396 36
1911	344,591 64	+17,258 06	341,057 40	+18,211 56
1912*	341,515 25	—3,076 39	333,607 69†	—7,449 71†
1913	375,558 61	34,043 36	359,274 81	25,667 12

☞For amounts abated and uncollected, see detail in Registrar's report.
*See explanatory notes in annual reports for years indicated. †Corrected.

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APPENDIX III.

SERVICE TAPS AND SUPPLY AND DISTRIBUTION MAINS SINCE 1884.

Year.	Service Taps.		Distribution Mains.		Supply and Distribution Mains in Use. (Miles.)
	Total Number.	Net Increase.	Extensions. (Feet.)	Cost of Extensions.	
1885	4,237	224	10,014	$11,235 33	75 01
1886	4,519	282	18,993	14,158 71	78 65
1887	4,819	300	17,244	14,600 36	81 55
1888	5,147	328	13,877	14,038 56	84 97
1889	5,497	350	29,059	26,418 94	91 11
1890	5,770	273	9,962	7,833 06	92 28
1891	6,181	411	14,927	10,396 00	94 86
1892	6,633	452	24,853	16,253 21	98 63
1893	7,000	367	25,079	17.090 71	102 97
1894	7,482	482	20,280	13,491 16	117 21*
1895	7,900	418	32,368	25,302 47	123 65
1896	8,298	398	23,521	21,018 62	127 80
1897	8,721	423	39,108	22,349 41	134 71
1898	9,070	349	28,810	16,042 36	140 08
1899	9,456	386	20,851	10,069 22	143 21
1900	9,764	308	9,880	6,362 20	144 69
1901	10,034	270	8,668	5,174 62	146 22
1902	10,221	187	5,353	3,060 71	147 34
1903	10,471	250	16,425	13,147 42	150 44
1904	10,641	170	9,767	6,163 18	152 20
1905	10,946	305	20,309	17,290 22	154 67
1906	11,175	229	17,027	24,054 14	156 84
1907	11,385	210	20,099	114,117 98**	160 42
1908	11,706	321	19,047	72,635 91**	161 85
1909	12,134	428	30,177	111,153 39**	174 87*
1910	12,545	411	45,520	152,570 23**	182 74
1911	12,985	440	31,816	43,044 79**	188 87
1912	13,407	422	31,220	39,747 99	195 11
1913	13,667†	476†	54,049	74,272 30	205 31

* The total of 117.21 miles of main and distribution pipe at end of 1894 includes 10.86 miles of "Ludlow Supply Main No. 2," laid in 1893 and 1894; and the total of 174.87 miles at end of 1909 includes 13.29 miles of "Little River Supply" pipe, laid in 1908-1909-1910.

** Amounts include *extension-cost* of "Circuit" mains, as follows:— 1907 = $93,911.77; 1908 = $26,776.96; 1909 = $91,900.00; 1910 = $121,039.43; 1911 = $4,693.65; leaving following balances for ordinary and improvement extensions:—1907 = $20,206.21; 1908 = $45,858.95; 1909 = $19,253.39; 1910 = $31,530.80; 1911 = $38,351.14.

†Revised by actual count for total, and elimination of errors of earlier years due to evident oversight of taps abandoned.

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APPENDIX IV.

TABLE OF METERS AND INDICATORS.

(*November 30, 1913.*)

KIND AND SIZE.	½″ or ⅝″	¾″	1″	1¼″	1½″	2″	3″	4″	5″	6″	8″	Totals.
Private Use (Revenue Meters)												
Crest,	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Crown,	1,055	642	97	.....	59	77	31	20	.....	5	.....	1,986
Desper,	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Empire,	1	3	16	.....	21	13	5	3	.....	1	.....	63
Empire Compound,	.....	.....	.....	.....	.....	9	8	.....	.....	1	.....	18
Gem,	.....	.....	.....	.....	.....	1	.....	3	.....	.....	.....	4
Hersey Disc,	1,440	597	101	.....	3	2	.....	.....	.....	.....	.....	2,143
Hersey Detector,	.....	.....	.....	.....	.....	.....	1	16	.....	24	3	44
Hersey Rotary,	233	301	22	.....	22	14	8	10	.....	2	.....	612
Keystone,	624	333	76	11	23	19	8	...	.....	.....	.....	1,094
Lambert,	354	105	26	.....	1	.....	.....	.....	.....	.....	.....	486
Nash,	2,420	1,187	339	.....	10	.....	1	.....	.....	.....	.....	3,957
Thomson,	5	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	12
Trident Disc,	1,068	354	84	.....	4	1	.....	.....	.....	.....	.....	1,511
Trident Compound,	.....	.....	.....	.....	.....	4	2	1	.....	.....	.....	7
Trident Protectus,	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Union Rotary,	46	16	2	.....	1	1	.....	.....	.....	.....	.....	66
Venturi,	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	2
Worthington Disc,	708	114	21	.....	.....	.....	.....	.....	.....	.....	.....	843
Worthington Turbine,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2
Total Private Use,	7,955	3,659	784	11	144	141	64	54	1	34	6	12,853
Public (Municipal) Use (Non-Revenue Meters)												
Crown,	.....	.....	.....	.....	.....	.....	.....	3	.....	1	.....	4
Empire,	2	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	3
Keystone,	.....	.....	.....	1	1	3	1	.....	.....	.....	.....	6
Nash,	1	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	3
Total Public Use,	3	.....	2	1	1	3	2	3	.....	1	.....	16
Total in Private and Public Use	7,958	3,659	786	12	145	144	66	57	1	35	6	12,869
In Use by Water Dept. (Non-Revenue Meters)												
Empire Compound,	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	2
Nash,	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Total Water Dept.,	.....	1	.....	.....	.....	1	.....	1	.....	...	.....	3
Total Meters in Use,	7,958	3,660	786	12	145	145	66	58	1	35	6	12,872
Owned as follows:—												
By Consumers,	7,954	3,656	785	11	143	142	63	54	1	33	5	12,847
By Water Dept.,	4	4	1	1	2	3	3	4	.....	2	1	25

Indicators.	Desper	Friction	Graves	Ross	Whitney	Whittier	Totals
For Elevators,	89	1	3	.....	.....	3	96
For Motors,	.....	.....	.....	1	1	.....	2
Total in Use,	89	1	3	1	1	3	98

Total Meters and Indicators in use Oct. 1, 1912=9,970 (per 1912 report)
(Meters added=3,013: indicators discontinued=13; net increase=3,000)
Total Meters and Indicators in use Dec. 1, 1913=12,970

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APPENDIX V.

COMPARATIVE STATEMENT,

SHOWING THE CLASSES OF CONSUMERS AND THE NUMBER OF EACH CLASS SUPPLIED BY THE AQUEDUCT COMPANY IN 1864, AND BY THE CITY IN 1874, 1880, 1900, 1910, 1912, AND 1913.

CLASSES.	1864.	1874.	1880.	1900.	1910.	1912.	1913.
Bakeries	.....	.....	8	36	55	60	62
Banks	2	9	12	16	10	10	10
Barber Shops	2	14	3	85	128	137	147
Bath Tubs	.....	439	..829	8,777	17,080	20,636	22,109
Beer Pumps	.....	.....	.....	67	91	91	91
Boarding Houses	.....	33	55	77	96	90	88
Breweries	.....	.....	2	2	3	3	3
Cemeteries	.....	.....	1	6	6	6	6
Churches (from 1895)	.....	.....	.....	39	60	59	60
Churches, Halls, and Public Buildings (to 1895)	2	12	14	.....	.....	.....	.....
Clubs, Societies, etc. (from 1897)	.....	.....	.....	34	37	37	39
Dyehouses and Bleacheries	2	2	3	4	5	7	6
Elevators	.....	.....	15	154	265	304	321
Families	1,288	3,637	4,893	15,179	22,748	25,779	27,087
Fish Tanks and Aquariums	.....	.....	.....	10	10	9	9
Foundries	4	5	6	13	18	17	17
Fountains (private)	.....	.....	12	9	9	9	7
Fountains (public)	.....	.....	.....	14	17	16	17
Garages (public) (from 1908)	.....	.....	.....	.....	12	18	27
Gas Works	.....	.....	1	1	1	1	1
Greenhouses	2	3	9	24	28	23	20
Halls (from 1895)	.....	.....	.....	53	77	65	66
Hose	.....	.....	885	3,827	6,163	6,895	7,285
Hotels	7	12	15	19	18	17	18
Laundries (public)	.....	6	6	41	40	46	48
Manufactories	6	50	80	79	89	91	92
Markets	..8	31	54	105	130	132	135
Motors	.....	.....	13	76	94	91	88
Offices and Rooms	.....	88	521	1,834	3,258	3,563	3,580
Parks (from 1895)	.....	.....	.....	13	16	15	21
Photographers	.....	6	9	11	18	17	16
Printers and Publishers	.....	.....	.....	25	32	31	32
Public Buildings and Institutions (from 1895)	.....	.....	.....	27	30	32	35
Public Playgrounds	.....	.....	.....	.....	.....	.....	6
Railroads	.....	.....	3	4	4	4	4
Restaurants	5	14	17	49	97	101	108
Saloons	9	34	32	44	54	56	58
Schools (total to 1897)	.....	12	15	.....	.....	.....	.....
Schools (private) (from 1897)	.....	.....	.....	14	14	14	14
Schools (public) (from 1897)	.....	.....	.....	32	35	35	36
Shops	18	51	88	333	463	497	516
Stables (private)	82	274	379	1,260	1,390	1,382	1,389
Stables (public)	6	14	23	31	20	22	22
Steam Engines	.....	.....	48	116	121	121	122
Steam Heaters	.....	.....	32	806	1,345	1,895	2,274
Stores	125	225	320	693	1,044	1,208	1,343
Street Railways (from 1895)	.....	.....	.....	1	1	1	1
Urinals	.....	131	296	560	729	788	843
Water Closets	.....	1,192	2,402	16,958	29,244	33,885	35,994
Watering Tanks and Drinking Fountains	.....	.....	.....	14	19	18	18

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APPENDIX VI.

SUMMARY OF STATISTICS

For the Year Ending November 30, 1913.

In form recommended by the New England Water Works Association.

SPRINGFIELD WATER WORKS,

City of Springfield, Hampden County, Massachusetts.

GENERAL STATISTICS.

Population of Springfield by U. S. census of 1910, . . 88,926
Estimated population of Springfield for 1913, . . . 98,157
Dates of construction:—
Original works in city, by private company, . . 1864
(Sale of same to city, for $238,296.00, in 1872.)
Works at Ludlow, Mass., ... 1873–1874–1875
Works at Belchertown, Mass., ... 1890–1891
Additional main from Ludlow reservoir, . . . 1893–1894
New supply from Westfield Little River, . . . 1907–1910
By whom owned, ... City of Springfield
Source of supply (a) used by Springfield District (filtered and metered):—
From Westfield Little River, storage capacity as follows:—
Borden brook reservoir, ... 2,500,000,000 gallons
Intake reservoir, ... 40,600,000 gallons
Sedimentation basin, ... 38,700,000 gallons
Provin mountain reservoir (*filtered*), . 17,000,000 gallons
Total, ... 2,596,300,000 gallons
Source of supply (b) used by adjoining town of Ludlow (unmetered):—
From impounding reservoirs in Ludlow and Belchertown (fed by natural streams, springs and surface water); storage capacity:—
Total, ... 1,434,218,000 gallons.

(Aggregate storage capacity, 4,030,518,000 gallons.)
Mode of supply, ... by gravity

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RECEIPTS (*credited*)—1913.

Balance brought forward: —			
(*a*) From ordinary (maintenance) receipts (transferred to sinking fund at end of year),			
(*b*) From extraordinary receipts (bonds, etc.), for Little river supply fund, Nov. 30, 1912,		$41,325 14	
(*c*) Inventory of stock and stores, on hand Nov. 30, 1912,		91,198 25	
Net total (forward from 1912),			$132,523 39
From Water Rates: —			
A. Fixture rates,		$5,930 78	
B. Meter rates,		353,344 03	
C. Total water rates *collected* from consumers			359,274 81
Public uses for:—			
D. Fire hydrants, average 1,518 @ $25.00 each,		$37,950 00	
E. Fountains, etc. (in parks),		898 35	
F. Street watering,		7,857 60	
G. Public buildings and departments,		18,253 14	
H. Miscellaneous public uses: —			
(*a*) Flushing sewers, 544 flush gates @ $10.00 each,	$5,440 00		
(*b*) Watering tanks and drinking fountains,	670 00		
(*c*) Building purposes (sewers and streets),	452 65		
		6,562 65	
I. General appropriation (for water),			
J. Total from municipal departments, *not collected* (per city ordinance),		$71,521 74	
K. *From tax levy* (for extensions, etc.),			
L. *From bond issue* (for improvement work),			250,000 00

EXPENDITURES (*charged*)—1913.

Water Works Maintenance:—			
AA. Operation (management and repairs),			$113,305 02
BB. Special:—			
(*a*) Distribution mains, renewal,	$19,921 73		
(*b*) Meter installing (unusual),	1,000 00		
(*c*) Little river watershed, (a/c trolley line),	2,457 24		
(*d*) Miscellaneous,	1,925 08		
		25,304 05	
CC. Total maintenance charged 1913 (not including interest or loan repaid),			$138,609 07
DD. Interest on bonds, (CC+DD=$220,869.07.)			82,260 00
EE. Payment of bonds (for new supply), (old supply bonds paid from sinking fund),			74,000 00
FF. Sinking fund,			22,746 69
Water Works Construction:—			
GG. Extension of mains,		$74,272 30	
HH. Extension of services (paid for by consumers),			
II. Extension of meters (paid for by consumers),			
JJ. Special:—			
(*a*) Hydrants and gate-extension,	$6,353 28		
(*b*) Colton street land and building,	98,046 90		
(*c*) Caretaker's house, Borden Brook,	4,691 01		
(*d*) Ludlow town supply (standpipe),	13,404 33		
(*e*) Miscellaneous,	5,115 39		
(*f*) Little river supply (net),	22,607 78		
		150,218 69	

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M. *From other sources*:—			
(a) From consumers and others, for services, meters, repairs, sales, penalties, etc. (*cash*),		$55,958 23	
(b) From water department employees for house rentals—included in "Operation" under expenditures (*credit*),		1,467 34	
(c) From water department buildings for water used—included in "Operation" under expenditures (*credit*),		107 81	
			57,533 38
N. Total, credited (including inventory forward),			$799,331 58

Additions to plant and property acct., 1913,		$224,490 99	
Less cash received during year a/c construction,		861 16	
Net additions to plant and property acct., 1913,		$223,629 83	
Plus accounts charged in 1912 inventory, now included in property and plant acct. of Nov. 30, 1912,		13,511 13	
KK. Net aggregate construction charged, 1913,			237,140 96
LL. Unclassified expenses:—			
Cost material and labor charged for "Sales,"			45,630 15
Nov., 1912, bills and pay rolls paid from 1913 cash receipts, charged 1912 work,			12,731 50
Refund of amount transferred from bond funds, 1912,			12,000 00
Net total expenditures charged, 1913,			$625,118 37
MM. BALANCE:—			
Inventory of stock and stores on hand Nov 30, 1913,		$113,495 85	
Little river supply fund, Nov. 30, 1913,		60,717 36	
Total balance,			174,213 21
N. Total (in balance with receipts),			$799,331 58

Disposition of balance:—Inventory of stock and stores and balance of bond proceeds carried forward.

O. Net cost of works to date,	Ludlow supply (including distribution),	$3,155,685 37	Little river supply,	$2,011,744 82	Total,	$5,167,430 19
P. Bonded debt at date,	Ludlow supply,	$275,000 00	"	$2,084,000 00	"	$2,359,000 00
Q. Value of sinking fund at date,	"	$80,180 08	"	.....	"	$80,180 08
R. Average rate of interest,	"	3.77%	"	3.64%	"	.....

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STATISTICS OF CONSUMPTION OF WATER.

*(*For Springfield District, only;—see note.*)

1.	Total population at date (estimated),	*99,457
2.	Population on lines of pipe (estimated),	98,224
3.	Population supplied (estimated),	97,860
4.	Total consumption for the year (Venturi meters) (365 days),	3,910,020,000 gallons
5.	Passed through consumers' meters,	2,499,515,813 gallons
6.	Percentage of consumption metered (5÷4),	63.92+ per cent
7.	Average daily consumption (4÷365),	10,712,000 gallons
8.	Gallons per day to each inhabitant (7÷1),	108
9.	Gallons per day to each consumer (7÷3),	109
10.	Gallons per day to each tap (7÷ "Distribution System" 22),	784

*NOTE:—Above include Springfield (population, 98,157), Feeding Hills (number supplied, 300), and Wilbraham section (number supplied, 500).

STATISTICS RELATING TO DISTRIBUTION SYSTEM.

MAINS.

1.	Kind of pipe used;—wrought-iron cement-lined (formerly used by private aqueduct company and by city);—wrought-iron—for small and temporary mains,—and cast-iron and steel (used by city at present).	
2.	Sizes;—from one to 54 inches.	
3.	Extended during year (added to pipe table, including all changes, etc.),	71,401 feet
4.	Discontinued during year (deducted from pipe table, including all changes, etc.),	17,510 feet
5.	Total now in use (city, Indian Orchard, Wilbraham, and Ludlow),	205.31 miles
6.	Cost of repairs per mile (including big breaks),	$6 36
7.	Number of leaks per mile (total leaks = 38),	0.19—
8.	Length of pipes less than 4 inches in diameter,	6.99— miles
9.	Number of hydrants added during year (public=108, and private=106*) (net),	214*
10.	Number of hydrants (public=1,574, and private=213), now in use (city, Indian Orchard, and Wilbraham),	1,787
11.	Number of hydrants in Ludlow (public=17, private=103), now in use,	120
12.	Number of stop gates added during year (public and private) (net),	342
13.	Number of stop gates now in use,	4,670

*100 private hydrants found not included in totals of earlier years.

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14. Number of gates smaller than 4-inch, . . . 682
15. Number of blow-offs (air valves), . . . 101
16. Range of pressure on mains:—

	Maximum	Average
(*a*) Main street level, ...	147 lbs.	140 lbs.
(*b*) Hill section level, ...	87 lbs.	80 lbs.

SERVICES.

17. Kind of pipe used:—lead (formerly used by private aqueduct company);—cement-lined wrought-iron, and tarred wrought-iron (formerly used by city);—galvanized wrought-iron, lead-lined wrought-iron, and cast-iron (used by city at present).
18. Sizes from ½ to 8 inches.
19. Extended during year (in feet).
20. Discontinued during year (in feet).
21. Total now in use (in miles).

NOTE.—Services paid for entirely by the consumers, and no special statistics kept of them.

22. Number of service taps added during year (net) (to December 1st), 476
23. Number of service taps now in use (to December 1st), 13,667*
24. Average length of service,
25. Average cost of service,

(See note under 19, 20, 21.)

26. Number of meters added (including indicators) (net to December 1st), . . . 3,000
    (*a*) Meters added, ... 3,013
    (*b*) Indicators discontinued, . . . 13
27. Number of meters in use December 1, 1913 (including indicators) (for 12,904 service taps), ... 12,970*
    (*a*) Meters (on supply pipes), . . . 12,872
    (*b*) Indicators (on elevators and motors), 98
28. Percentage of services metered (December 1, 1913), ... 94.42 per cent
29. Percentage of *cash* receipts from metered water (to December 1st) (B÷C), ... 98.35 per cent
30. Number of motors and elevators added (net), 14
    (*a*) Motors added, 0; discontinued, 3; . = −3
    (*b*) Elevators added, 20; discontinued, 3; = +17
31. Number of motors and elevators now in use, . 409
    (*a*) Motors, ... 88
    (*b*) Elevators, ... 321

* Revised total Nov. 30, 1913.

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APPENDIX VII.

SUMMARY OF MAIN PIPE LAID AND TAKEN OUT IN 1913.

(Including Changes and Corrections).

Divisions.	1″	1¼″	1½″	2″	3″	4″	6″	8″	10″	12″	16″	20″	24″	Total
PIPE LAID														
Owned by Private Parties														
Wrought-iron,	1,067	180	444	..	..	..	..	..	..	..	..	..	..	1,691
Owned by City														
Wrought-iron,	354	78	..	..	..	..	..	..	..	..	..	..	..	432
Cast-iron,	..	..	..	..	..	3,853	12,979	23,429	4,641	20,549	66	..	3,761	69,278
Total Pipe Added,	1,421	258	444	..	..	3,853	12,979	23,429	4,641	20,549	66	..	3,761	71,401
PIPE TAKEN OUT OR ABANDONED														
Wrought-iron,	496	164	626	1,311	362	..	..	..	..	..	..	..	..	2,959
Cement-lined,	..	..	..	..	..	573	469	1,368	..	356	..	..	3,761	6,527
Cast-iron,	..	..	..	..	..	358	5,135	1,364	841	214	8	104	..	8,024
Total Pipe Deducted,	496	164	626	1,311	362	931	5,604	2,732	841	570	8	104	3,761	17,510
Net Pipe Added,	+925	+94	-182	-1,311	-362	+2,922	+7,375	+20,697	+3,800	+19,979	+58	-104	..	+53,891

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APPENDIX VIII.

SUMMARY OF SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 1, 1913.

SIZES.	Wrought-Iron.	Cement-Lined.	Cast-Iron.	Steel. L=*Lock-bar.* R=*Riveted.*	TOTALS.
1-inch.....	3,318	....	....	....	3,318
1¼-inch...	8,322	....	....	....	8,322
1½-inch...	6,963	....	....	....	6,963
2-inch.....	17,835	....	....	....	17,835
3-inch.....	451	....	....	....	451
4-inch.....	....	2,244	59,359	....	61,603
6-inch.....	....	4,002	444,169	....	448,171
8-inch.....	....	5,962	171,714	....	177,676
10-inch....	....	....	34,099	....	34,099
12-inch....	....	700	64,116	....	64,816
16-inch....	....	....	33,618	....	33,618
20-inch....	....	....	8,654	....	8,654
24-inch....	....	43,354	24,876	....	68,230
30-inch....	....	....	50,364	L 2,163	52,527
36-inch....	....	....	31,567	R 318	31,885
42-inch....	....	....	2,254	L 61,792	64,046
54-inch....	....	....	....	L 1,851	1,851
Feet,....	36,889	56,262	924,790	66,124	1,084,065
Miles,...	6.99—	10.66—	175.15—	12.52+	205.31+

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APPENDIX IX.

SUMMARY OF GATES AND FIRE HYDRANTS SET AND TAKEN OUT IN 1913.

(Including Changes and Corrections).

Divisions.	1″	1¼″	1½″	2″	2½″	3″	4″	5″	6″	8″	10″	12″	16″	20″	24″	Total
Gates Set, 1913, (Including Those Added),	..	3	3	32	6	3	29	..	243	117	15	69	14	..	2	536
Gates Taken Out, 1913, (Including Those Abandoned),	2	7	3	7	..	3	16	..	37	25	1	1	..	1	1	104
Net Gates Added, 1913,	—2	—4	..	+25	+6	..	+13	..	+206	+92	+14	+68	+14	—1	+1	+432
Total Gates, Dec. 1, 1912,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4,238
Total Gates, Dec. 1, 1913,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4,670
Public Hydrants Set, 1913,	..	..	..	..	..	..	1	2	151	2	..	..	..	..	..	156
Public Hydrants Taken Out, 1913,	..	..	..	..	..	..	34	1	14	..	..	..	..	..	..	49
Net Public Hydrants Set, 1913,	..	..	..	..	..	..	—33	+1	+137	+2	..	..	..	..	..	107
Private Hydrants Set, 1913,	..	..	..	..	..	..	..	..	6	..	..	..	..	..	..	6
Added, account previous years, (Public and Private).	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	101
Total Hydrants, Dec. 1, 1912,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1,573
Total Hydrants, Dec. 1, 1913, (Not including Ludlow).	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1,787

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APPENDIX X.

CLASSIFICATION OF FIRE HYDRANTS

Connected to Water Works System, December 1, 1913.

Divisions and Sizes	Springfield (City)	Indian Orchard	Wilbraham	Total (not including Ludlow)	Ludlow	Total
Public:						
8 inch.....	80	0	0	80	0	80
6 inch.....	971	41	4	1,016	0	1,016
5 inch.....	12	15	1	28	0	28
4 inch.....	415	35	0	450	17	467
Total public....	1,478	91	5	1,574	17	1,591
Private:						
8 inch.....	0	0	0	0	0	0
6 inch.....	*113	23	0	*136	87	*223
5 inch.....	0	4	0	4	0	4
4 inch.....	67	6	0	73	16	89
Total private...	*180	33	0	*213	103	*316
Total public and private hydrants.....	*1,658	124	5	*1,787	120	*1,907

* Includes one hydrant on Little River Supply Main, Westfield.

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APPENDIX XI.

SUMMARY OF STREET WATERING HYDRANTS, WATERING TANKS AND DRINKING FOUNTAINS

Connected to Water Works System, December 1, 1913.

Crane Hydrants For Cart Sprinklers	City		Indian Orchard		Total
Owned by Water Department,	85	+	8	=	93
Owned by Street Watering Department,	48	+	3	=	51
Total,	133	+	11	=	144
Track Hydrants For Car Sprinklers					
All owned by Street Watering Department,	30	+	0	=	30
Total Street Watering Hydrants,	163	+	11	=	174
Watering Tanks (for animals),	11	+	1	=	12
Drinking Fountains (for persons),	5	+	1	=	6
Total Watering Tanks and Drinking Fountains,	16	+	2	=	18

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APPENDIX XII.

LITTLE RIVER WATER SUPPLY SPRINGFIELD, MASS.

CONSUMPTION OF SPRINGFIELD, WILBRAHAM, AND AGAWAM.
METERED AT PROVIN MOUNTAIN. IN MILLION GALLONS.

1913	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	8.46	8.07	8.67	10.10	11.05	9.76	14.36	11.62	9.55	11.56	10.06	11.39
2	9.71	7.20	7.84	10.91	11.60	12.38	13.50	11.70	11.01	11.75	8.94	11.02
3	9.40	9.88	10.28	11.13	10.09	12.25	12.87	9.68	13.11	11.95	11.66	11.11
4	8.64	11.22	10.13	10.77	10.60	12.22	10.20	11.82	11.75	10.43	11.60	11.12
5	7.35	8.89	10.08	9.80	12.70	12.72	12.42	12.15	11.50	9.35	11.57	10.80
6	10.02	10.63	10.33	8.90	12.47	11.86	10.78	12.10	10.38	12.15	11.67	9.60
7	9.70	10 60	10.25	11.30	12.19	11.30	12.51	11.20	9.15	12.00	11.18	8.53
8	10.07	9.20	9.08	11.19	11.80	9.30	12.10	12.00	11.94	12.02	9.91	10.99
9	9.85	8.50	7.72	11.21	11.61	12.47	12.32	11.23	11.51	11.70	8.67	11.11
10	9.59	10.63	10.52	11.08	10.38	12.39	12.20	9.90	10.70	11.93	11.56	10.76
11	8.35	10.38	10.24	10.63	9.63	12.68	13.15	12.00	12.60	10.00	11.29	11.06
12	7.44	11.12	10.22	9.42	12.50	12.37	11.93	12.01	11.56	8.45	11.38	11.00
13	10.40	11.13	10.10	8.35	12.17	12.19	10.10	12.00	10.17	9.50	11.09	9.70
14	10.00	10.48	10.00	11.24	12.33	11.27	12.50	12.04	8.96	11.80	11.18	8.77
15	10.10	9.08	8.88	11.10	11.58	9.61	12.42	12.35	12.50	12.05	9.72	11.67
16	9.76	8.28	7.10	10.66	11.07	13.50	12.90	11.77	11.85	12.71	8.68	10.94
17	9.42	11.05	10.16	11.30	9.80	12.80	12.50	10.43	11.91	10.65	11.66	11.12
18	8.09	10.74	10.24	10.95	9.20	12.62	10.90	12.95	10.55	10.40	10.99	10.74
19	6.83	10.90	10.26	8.60	11.80	11.80	11.54	12.07	12.40	8.83	11.39	10.57
20	10.10	10.50	10.00	8.94	11.75	11.21	9.40	12.02	9.95	11.33	10.99	9.62
21	9.55	10.27	9.54	11.64	12.17	11.15	12.37	11.73	8.95	12.25	11.16	8.72
22	9.31	7.77	8.55	11.68	11.30	9.69	12.79	11.54	12.10	11.50	9.85	11.33
23	9.14	8.17	7.55	11.56	11.38	13.31	12.45	10.16	11.90	11.38	9.77	11.04
24	9.31	10.00	10.52	11.65	10.12	13.30	11.33	9.35	12.06	10.87	10.53	9.92
25	8.84	10.00	10.37	11.60	9.38	12.32	11.80	12.07	11.65	9.86	11.35	8.18
26	7.10	10.56	10.26	10.13	12.02	12.73	11.57	11.91	11.51	9.18	10.79	9.74
27	9.64	8.42	9.57	8.67	11.58	13.50	10.21	11.20	10.50	11.14	8.44	10.33
28	10.34	9.31	9.28	10.50	11.60	12.00	10.60	10.87	9.10	11.81	10.07	7.51
29	10.30	.....	8.41	10.82	11.43	10.11	12.84	10.82	12.58	11.44	9.59	10.65
30	9.36	.....	7.00	11.09	9.33	13.22	12.50	10.20	11.93	11.44	8.66	9.19
31	9.40	.....	10.37	.....	10.45	.....	12.38	8.68	.....	11.38	.....	10.98
Totals	285.57	272.98	293.47	316.92	347.06	358.03	371.44	351.77	335.33	342.81	315.40	319.27
Aver.	9.21	9.75	9.47	10.56	11.20	11.93	11.98	11.35	11.18	11.06	10.51	10.30

N. B.—Springfield (98,157), Wilbraham (500), Feeding Hills (800), to December 1, 1913. Then Agawam (3000+).

Basis population, 99,457. Daily consumption per capita=108 gals.

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APPENDIX XIII.

LITTLE RIVER WATER SUPPLY SPRINGFIELD, MASS.

Water Supplied to Chicopee, West Springfield, and East Longmeadow.

As Metered.* In Gallons.

1918	CHICOPEE.	WEST SPRINGFIELD.		EAST LONGMEADOW.	
	SEPT.	OCT.	NOV.	NOV.	DEC.
1	.....	.....	451,044	898	17,053
2	.....	.....	443,564	53,400	14,960
3	.....	.....	456,280	41,400	21,000
4	.....	.....	473,720	150	11,884
5	.....	.....	473,720	75	8,680
6	.....	.....	.....	29,100	8,950
7	.....	.....	.....	24,250	8,950
8	.....	.....	.....	24,250	7,860
9	.....	.....	.....	29,900	7,780
10	.....	.....	.....	19,300	6,210
11	.....	.....	.....	13,520	5,675
12	.....	.....	.....	21,250	5,675
13	.....	.....	.....	16,750	7,900
14	.....	.....	.....	15,850	7,900
15	.....	.....	.....	15,850	6,580
16	.....	.....	.....	15,850	6,500
17	.....	.....	.....	14,450	6,350
18	.....	.....	.....	16,950	6,130
19	.....	.....	.....	10,700	9,350
20	.....	.....	.....	10,700	5,455
21	.....	.....	.....	11,000	5,455
22	.....	.....	.....	15,150	8,356
23	.....	471,988	.....	15,150	8,356
24	.....	463,760	.....	4,600	7,105
25	359,040	442,300	.....	4,600	7,105
26	529,509	420,892	.....	9,500	6,435
27	.....	454,784	.....	9,500	6,435
28	.....	447,304	.....	8,600	6,435
29	.....	455,532	.....	8,600	6,435
30	.....	448,800	.....	8,600	10,580
31	.....	443,564	.....	.....	10,520
Totals	888,549	4,048,924	2,308,328	469,893	264,119
Aver.	444,275	449,880	461,666	15,663	8,520

*Chicopee metered at Chicopee-Springfield line, North Main Street.
West Springfield metered at King's Highway.
East Longmeadow metered at Springfield-East Longmeadow line, on White Street.

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APPENDIX XIV.

LUDLOW TOWN WATER SUPPLY, LUDLOW, MASS.

CONSUMPTION OF LUDLOW MFG. CO.'S PRIVATE SYSTEM, DURING 1913 IN GALLONS AS PLANIMETERED FROM DAILY VENTURI METER CHARTS.

1913	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1				355,500	285,000	391,500	777,000	648,750	465,750	397,500	360,500	363,500
2				351,000	336,000	403,500	810,000	690,750	450,000	299,250	300,000	354,000
3				385,750	363,000	403,500	696,000	458,000	330,000	295,500	310,500	354,000
4				378,000	270,000	415,500	792,000	585,000	330,000	280,500	324,900	368,000
5				367,500	369,500	413,250	642,000	520,500	334,500	328,875	304,900	345,000
6				330,750	363,000	429,000	546,000	450,375	357,000	311,250	332,500	305,000
7				382,750	294,000	297,750	552,000	684,000	326,250	322,500	305,000	354,000
8				380,250	285,000	384,000	482,625	622,500	351,000	317,250	311,000	363,500
9				348,000	297,000	446,250	471,000	597,000	372,000	339,000	312,620	362,000
10				334,500	262,500	455,250	635,250	619,500	348,750	301,500	400,000	246,000
11				302,250	246,000	455,250	600,750	643,500	387,000	282,000	362,000	239,000
12			456,000	315,000	339,000	450,000	458,250	511,500	340,500	285,000	377,000	202,000
13			351,000	344,250	279,000	567,750	591,000	569,250	310,500	307,500	376,000	200,000
14			402,000	353,250	384,000	514,500	652,500	651,000	345,000	319,500	330,000	183,000
15			420,000	336,000	327,750	598,500	676,500	693,000	328,500	316,500	319,000	212,500
16			446,500	313,500	258,750	563,250	613,875	710,250	327,000	340,500	377,000	211,000
17			423,000	315,000	421,500	552,750	300,375	585,000	345,000	303,000	388,000	229,500
18			426,000	341,625	453,750	390,000	600,000	592,500	312,000	330,750	388,000	225,000
19			459,000	345,000	428,250	259,000	473,250	547,500	321,000	338,250	368,000	239,000
20			475,500	340,500	498,750	432,000	642,750	527,250	294,000	324,000	333,000	203,000
21			454,500	359,625	437,250	476,250	711,000	523,500	345,000	315,000	393,000	208,000
22			457,500	365,250	289,500	601,000	666,000	470,625	360,000	351,000	339,000	222,000
23			445,500	315,000	261,000	585,750	435,750	486,000	370,500	325,500	376,000	211,000
24			444,500	302,250	276,000	498,000	498,375	510,375	372,000	311,000	376,000	171,000
25			426,500	276,000	258,000	497,250	630,750	505,500	388,500	323,000	340,500	189,500
26			424,500	327,750	287,250	701,250	678,000	401,250	325,500	360,500	302,000	177,000
27			436,250	267,000	261,000	649,500	464,250	426,750	267,000	338,800	345,000	172,500
28			449,250	276,750	261,750	660,500	582,000	328,500	321,000	330,000	312,000	245,000
29			474,000	252,750	265,500	665,250	750,750	355,125	339,000	318,000	326,500	202,000
30			446,250	245,250	300,000	864,000	598,500	364,875	330,000	315,000	370,000	195,500
31			405,500		333,500		491,250	456,000		328,500		157,000
Tot'ls			8,722,750	9,966,000	9,967,500	15,021,250	18,519,750	16,780,625	10,394,250	9,956,425	10,419,920	7,709,500
Aver.			436,100	330,300	321,500	500,700	597,400	540,000	346,500	321,200	347,300	251,500

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APPENDIX XV.

MASSACHUSETTS STATE BOARD OF HEALTH.

WATER ANALYSIS OF WESTFIELD LITTLE RIVER, Springfield, 1913. (Parts in 100,000.)

BORDEN BROOK RESERVOIR—Inlet.

NO.	DATE.		APPEARANCE.			RESIDUE.			AMMONIA.				Chlorine.	NITROGEN.		Oxygen Consumed.	Hardness.	Iron.
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Total.	Volatile.	Fixed.	Free.	Albuminoid. Total	Solution.	Susp.		As Nitrates.	As Nitrites.			
105196	Jan. 10	Jan. 11	None	V. Slt.	.54	3.55	1.25	2.30	.0022	.0146	.0130	.0016	.14	.0010	.0000	.71	1.3	.006
105823	Feb. 7		None	V. Slt.	.45	3.25	1.55	1.70	.0008	.0114	.0102	.0012	.14	.0000	.0000	.48	1.3	.012
107008	April 2		None	V. Slt.	.65	3.30	1.30	2.00	.0022	.0164	.0154	.0010	.13	.0000	.0000	.69	0.8	.004
107589	May 5		V. Slt.	V. Slt.	1.24	4.05	1.45	2.60	.0030	.0252	.0208	.0044	.12	.0010	.0001	1.22	0.8	.018
108206	June 3		None	V. Slt.	1.40	4.80	2.70	2.10	.0012	.0316	.0288	.0028	.11	.0010	.0001	1.86	0.8	.018
108986	July 2		V. Slt.	Slight	.36	5.30	1.80	3.50	.0104	.0304	.0260	.0044	.17	.0000	.0000	.50	2.0	.026
109710	Aug. 4		Slight	Cons.	.21	6.25	1.55	4.70	.0012	.0220	.0150	.0070	.20	.0000	.0000	.29	3.1	.034
110813	Sept. 3		V. Slt.	Slight	.22	7.55	1.85	5.70	.0014	.0148	.0116	.0032	.22	.0000	.0000	.24	3.3	.031
111778	Oct. 6		None	None	.60	9.30	2.80	6.50	.0030	.0300	.0260	.0040	.24	.0010	.0000	.98	3.3	.013
112667	Nov. 12		None	V. Slt.	1.00	5.55	2.25	3.30	.0032	.0236	.0232	.0004	.18	.0000	.0001	1.36	1.1	.011
113259	Dec. 5		V. Slt.	V. Slt.	.70	4.90	2.10	2.80	.0016	.0168	.0148	.0020	.13	.0010	.0000	.84	1.0	.011

BORDEN BROOK RESERVOIR—Surface.

105197	Jan. 10	Jan. 11	V. Slt.	V. Slt.	.54	3.95	1.75	2.20	.0140	.0170	.0156	.0014	.12	.0020	.0000	.58	1.3	.080
105824	Feb. 7		V. Slt.	None	.53	3.65	1.45	2.20	.0124	.0142	.0132	.0010	.11	.0010	.0000	.51	1.3	.080
106384	Mar. 5		V. Slt.	V. Slt.	.52	3.70	1.50	2.20	.0106	.0182	.0156	.0026	.15	.0040	.0002	.54	1.3	.050
107004	April 2		Slight	Cons.	.52	3.80	1.25	2.55	.0108	.0340	.0182	.0158	.13	.0030	.0000	.48	0.8	.100
107590	May 5		V. Slt.	V. Slt.	.47	3.10	1.40	1.70	.0050	.0194	.0148	.0046	.12	.0010	.0002	.51	0.8	.060
108207	June 3		Slight	Cons.	.55	2.20	.90	1.30	.0056	.0292	.0240	.0052	.13	.0030	.0001	.62	0.8	.050
108987	July 2		V. Slt.	Slight	.40	3.85	1.50	2.35	.0064	.0312	.0258	.0054	.14	.0000	.0000	.50	0.5	.055
109711	Aug. 4		V. Slt.	Slight	.38	2.95	1.00	1.95	.0044	.0184	.0164	.0020	.10	.0000	.0000	.59	1.0	.060
110814	Sept. 3		Slight	Slight	.35	4.35	1.80	2.55	.0030	.0248	.0204	.0044	.12	.0000	.0000	.46	1.0	.060
111779	Oct. 6		Slight	V. Slt.	.41	3.30	1.40	1.90	.0064	.0236	.0154	.0082	.12	.0030	.0001	.45	0.8	.090
112668	Nov. 12		V. Slt.	V. Slt.	.72	4.00	1.60	2.40	.0196	.0304	.0220	.0084	.17	.0010	.0008	.68	0.8	.120
113260	Dec. 5		Slight	V. Slt.	.72	3.60	1.50	2.10	.0144	.0192	.0172	.0020	.13	.0010	.0000	.60	1.1	.110

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MASSACHUSETTS STATE BOARD OF HEALTH.

WATER ANALYSIS OF WESTFIELD LITTLE RIVER, Springfield, 1913. (Parts in 100,000.)

BORDEN BROOK RESERVOIR—Bottom.

NO.	DATE.		APPEARANCE.			RESIDUE.			AMMONIA.				Chlorine.	NITROGEN.		Oxygen Consumed.	Hardness.	Iron.
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Total.	Volatile.	Fixed.	Free.	Albuminoid. Total	Solution.	Susp.		As Nitrates.	As Nitrites.			
105198	Jan. 10	Jan. 11	V. Slt.	V. Slt.	.54	3.70	1.25	2.45	.0148	.0172	.0162	.0010	.11	.0020	.0000	.58	1.8	.080
105825	Feb. 7		V. Slt.	Slight	.52	2.80	1.25	1.55	.0120	.0152	.0140	.0012	.12	.0010	.0001	.51	1.8	....
106385	Mar. 5		V. Slt.	V. Slt.	.56	3.15	1.25	1.90	.0132	.0168	.0142	.0026	.14	.0040	.0000	.52	1.8	.060
107005	Apr. 2		Slight	Cons.	.53	3.25	1.20	2.05	.0096	.0256	.0154	.0102	.15	.0010	.0000	.52	0.8	.120
107591	May 5		Slight	Cons.	.50	4.80	1.90	2.90	.0152	.0392	.0168	.0224	.16	.0080	.0004	.55	2.2	.400
108206	June 8		Slight	Cons.	.58	3.45	1.55	1.90	.0040	.0264	.0202	.0062	.12	.0020	.0002	.65	0.8	.050
108938	July 2		V. Slt.	V. Slt.	.40	3.35	1.25	2.10	.0100	.0222	.0176	.0046	.11	.0050	.0000	.52	0.5	.060
109712	Aug. 4		V. Slt.	Slight	.46	3.50	1.40	2.10	.0136	.0156	.....	.....	.11	.0020	.0002	.48	0.8	.060
110815	Sept. 8		V. Slt.	V. Slt.	.35	3.90	1.40	2.50	.0042	.0188	.0174	.0014	.11	.0010	.0002	.46	1.0	.075
111780	Oct. 6		Slight	V. Slt.	.40	3.35	1.50	1.85	.0040	.0232	.0180	.0052	.11	.0030	.0000	.43	0.5	.085
112669	Nov. 12		V. Slt.	V. Slt.	.65	3.80	1.30	2.50	.0236	.0260	.0212	.0048	.13	.0010	.0002	67	0.6	.110
113261	Dec. 5		Slight	V. Slt.	.65	3.95	1.40	2.55	.0148	.0180	.0136	.0044	.11	.0000	.0000	.60	1.1	.120

BORDEN BROOK—At junction with Pebble Brook.

105195	Jan. 10	Jan. 11	V. Slt.	Slight	.52	3.25	1.55	1.70	.0114	.0156	.0124	.0032	.18	.0040	.0000	.50	1.8	.060
105822	Feb. 7		V. Slt.	V. Slt.	.32	3.50	1.10	2.40	.0058	.0134	.0098	.0036	.16	.0060	.0000	.35	1.8	.050
106382	Mar. 5		Decided	Slight	.45	3.85	1.25	2.60	.0062	.0120	.0106	.0014	.16	.0050	.0001	.40	1.8	.120
107002	April 2		Decided	Cons.	*.60	4.70	1.40	3.30	.0068	.0200	.0116	.0084	.12	.0000	.0000	.41	0.8	.160
107588	May 5		V. Slt.	V. Slt.	.33	3.00	1.05	1.95	.0008	.0122	.0112	.0010	.16	.0030	.0002	.38	0.8	.025
108205	June 3		V. Slt.	Slight	.37	3.50	1.00	2.50	.0016	.0146	.0122	.0024	.11	.0020	.0002	.44	1.3	.028
108934	July 2		V. Slt.	Slight	.38	3.50	1.25	2.25	.0060	.0208	.0164	.0044	.12	.0040	.0000	.40	0.8	.046
109708	Aug. 4		V. Slt.	Slight	.38	3.50	1.50	2.00	.0076	.0192	.0156	.0036	.09	.0020	.0002	.51	1.0	.060
110811	Sept. 8		V. Slt.	Slight	.42	3.65	1.10	2.55	.0044	.0200	.0178	.0022	.13	.0010	.0001	.44	1.1	.055
111776	Oct. 6		V. Slt.	V. Slt.	.11	3.75	1.10	2.65	.0008	.0064	.0052	.0012	.14	.0050	.0001	.18	1.1	.010
112665	Nov. 12		None	V. Slt.	.17	3.00	1.05	1.95	.0012	.0074	.0068	.0006	.20	.0000	.0001	.32	0.8	.005
113263	Dec. 5		V. Slt.	V. Slt.	.10	3.00	1.15	1.85	.0006	.0046	.0042	.0004	.15	.0060	.0000	.18	0.8	.004

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APPENDIX XV.

MASSACHUSETTS STATE BOARD OF HEALTH.

WATER ANALYSIS OF WESTFIELD LITTLE RIVER, Springfield, 1913. (Parts in 100,000.)

BORDEN BROOK RESERVOIR—Inlet.

NO.	DATE.		APPEARANCE.			RESIDUE.			AMMONIA.				Chlorine.	NITROGEN.		Oxygen Consumed.	Hardness.	Iron.
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Total.	Volatile.	Fixed.	Free.	Albuminoid. Total	Solution.	Susp.		As Nitrates.	As Nitrites.			
105196	Jan. 10	Jan. 11	None	V. Slt.	.54	3.55	1.25	2.30	.0022	.0146	.0130	.0016	.14	.0010	.0000	.71	1.3	.006
105823	Feb. 7		None	V. Slt.	.45	3.25	1.55	1.70	.0008	.0114	.0102	.0012	.14	.0000	.0000	.48	1.3	.012
107008	April 2		None	V. Slt.	.65	3.30	1.30	2.00	.0022	.0164	.0154	.0010	.13	.0000	.0000	.69	0.8	.004
107589	May 5		V. Slt.	V. Slt.	1.24	4.05	1.45	2.60	.0030	.0252	.0208	.0044	.12	.0010	.0001	1.22	0.8	.018
108206	June 3		None	V. Slt.	1.40	4.80	2.70	2.10	.0012	.0316	.0288	.0028	.11	.0010	.0001	1.36	0.8	.018
108986	July 2		V. Slt.	Slight	.36	5.30	1.80	3.50	.0104	.0304	.0260	.0044	.17	.0000	.0000	.50	2.0	.026
109710	Aug. 4		Slight	Cons.	.21	6.25	1.55	4.70	.0012	.0220	.0150	.0070	.20	.0000	.0000	.29	3.1	.084
110813	Sept. 3		V. Slt.	Slight	.22	7.55	1.85	5.70	.0014	.0148	.0116	.0032	.22	.0000	.0000	.24	3.3	.031
111778	Oct. 6		None	None	.60	9.30	2.80	6.50	.0030	.0300	.0260	.0040	.24	.0010	.0000	.93	3.3	.013
112667	Nov. 12		None	V. Slt.	1.00	5.55	2.25	3.30	.0032	.0236	.0232	.0004	.18	.0000	.0001	1.36	1.1	.011
113259	Dec. 5		V. Slt.	V. Slt.	.70	4.90	2.10	2.80	.0016	.0168	.0148	.0020	.13	.0010	.0000	.84	1.0	.011

BORDEN BROOK RESERVOIR—Surface.

105197	Jan. 10	Jan. 11	V. Slt.	V. Slt.	.54	3.95	1.75	2.20	.0140	.0170	.0156	.0014	.12	.0020	.0000	.58	1.3	.080
105824	Feb. 7		V. Slt.	None	.53	3.65	1.45	2.20	.0124	.0142	.0132	.0010	.11	.0010	.0000	.51	1.3	.080
106884	Mar. 5		V. Slt.	V. Slt.	.52	3.70	1.50	2.20	.0106	.0182	.0156	.0026	.15	.0040	.0002	.54	1.3	.050
107004	April 2		Slight	Cons.	.52	3.80	1.25	2.55	.0108	.0340	.0182	.0158	.13	.0030	.0000	.48	0.8	.100
107590	May 5		V. Slt.	V. Slt.	.47	3.10	1.40	1.70	.0050	.0194	.0148	.0046	.12	.0010	.0002	.51	0.8	.060
108207	June 3		Slight	Cons.	.55	2.20	.90	1.30	.0056	.0292	.0240	.0052	.13	.0030	.0001	.62	0.8	.050
108987	July 2		V. Slt.	Slight	.40	3.85	1.50	2.35	.0064	.0312	.0258	.0054	.14	.0000	.0000	.50	0.5	.055
109711	Aug. 4		V. Slt.	Slight	.38	2.95	1.00	1.95	.0044	.0184	.0164	.0020	.10	.0000	.0000	.59	1.0	.060
110814	Sept. 3		Slight	Slight	.35	4.35	1.80	2.55	.0080	.0248	.0204	.0044	.12	.0000	.0000	.46	1.0	.060
111779	Oct. 6		Slight	V. Slt.	.41	3.30	1.40	1.90	.0064	.0236	.0154	.0082	.12	.0030	.0001	.45	0.8	.090
112668	Nov. 12		V. Slt.	V. Slt.	.72	4.00	1.60	2.40	.0196	.0304	.0220	.0084	.17	.0010	.0008	.68	0.8	.120
113260	Dec. 5		Slight	V. Slt.	.72	3.60	1.50	2.10	.0144	.0192	.0172	.0020	.13	.0010	.0000	.60	1.1	.110

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MASSACHUSETTS STATE BOARD OF HEALTH.

WATER ANALYSIS OF WESTFIELD LITTLE RIVER, Springfield, 1913. (Parts in 100,000.)

BORDEN BROOK RESERVOIR—Bottom.

NO.	DATE.		APPEARANCE.			RESIDUE.			AMMONIA.				Chlorine.	NITROGEN.		Oxygen Consumed.	Hardness.	Iron.
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Total.	Volatile.	Fixed.	Free.	Albuminoid.				As Nitrates.	As Nitrites.			
										Total	Solution.	Susp.						
105198	Jan. 10	Jan. 11	V. Slt.	V. Slt.	.54	3.70	1.25	2.45	.0148	.0172	.0162	.0010	.11	.0020	.0000	.58	1.3	.080
105825	Feb. 7		V. Slt.	Slight	.52	2.80	1.25	1.55	.0120	.0152	.0140	.0012	.12	.0010	.0001	.51	1.3	....
106385	Mar. 5		V. Slt.	V. Slt.	.56	3.15	1.25	1.90	.0182	.0168	.0142	.0026	.14	.0040	.0000	.52	1.3	.060
107005	Apr. 2		Slight	Cons.	.53	3.25	1.20	2.05	.0096	.0256	.0154	.0102	.15	.0010	.0000	.52	0.8	.120
107591	May 5		Slight	Cons.	.50	4.80	1.90	2.90	.0152	.0392	.0168	.0224	.16	.0080	.0004	.55	2.2	.400
108208	June 3		Slight	Cons.	.58	3.45	1.55	1.90	.0040	.0264	.0202	.0062	.12	.0020	.0002	.65	0.8	.050
108938	July 2		V. Slt.	V. Slt.	.40	3.35	1.25	2.10	.0100	.0222	.0176	.0046	.11	.0060	.0000	.52	0.5	.060
109712	Aug. 4		V. Slt.	Slight	.46	3.50	1.40	2.10	.0136	.0156	.....	.....	.11	.0020	.0002	.48	0.8	.060
110815	Sept. 3		V. Slt.	V. Slt.	.35	3.90	1.40	2.50	.0042	.0188	.0174	.0014	.11	.0010	.0002	.46	1.0	.075
111780	Oct. 6		Slight	V. Slt.	.40	3.35	1.50	1.85	.0040	.0232	.0180	.0052	.11	.0030	.0000	.43	0.5	.085
112669	Nov. 12		V. Slt.	V. Slt.	.65	3.80	1.30	2.50	.0236	.0260	.0212	.0048	.13	.0010	.0002	.67	0.6	.110
113261	Dec. 5		Slight	V. Slt.	.65	3.95	1.40	2.55	.0148	.0180	.0136	.0044	.11	.0000	.0000	.60	1.1	.120

BORDEN BROOK—At junction with Pebble Brook.

105195	Jan. 10	Jan. 11	V. Slt.	Slight	.52	3.25	1.55	1.70	.0114	.0156	.0124	.0032	.13	.0040	.0000	.50	1.3	.060
105822	Feb. 7		V. Slt.	V. Slt.	.32	3.50	1.10	2.40	.0058	.0134	.0098	.0036	.16	.0060	.0000	.35	1.3	.050
106382	Mar. 5		Decided	Slight	.45	3.85	1.25	2.60	.0062	.0120	.0106	.0014	.16	.0050	.0001	.40	1.3	.120
107002	April 2		Decided	Cons.	*.60	4.70	1.40	3.30	.0068	.0200	.0116	.0084	.12	.0000	.0000	.41	0.8	.160
107588	May 5		V. Slt.	V. Slt.	.33	3.00	1.05	1.95	.0008	.0122	.0112	.0010	.16	.0030	.0002	.38	0.8	.025
108205	June 3		V. Slt.	Slight	.37	3.50	1.00	2.50	.0016	.0146	.0122	.0024	.11	.0020	.0002	.44	1.3	.028
108934	July 2		V. Slt.	Slight	.38	3.50	1.25	2.25	.0060	.0208	.0164	.0044	.12	.0040	.0000	.40	0.8	.046
109708	Aug. 4		V. Slt.	Slight	.38	3.50	1.50	2.00	.0076	.0192	.0156	.0036	.09	.0020	.0002	.51	1.0	.060
110811	Sept. 3		V. Slt.	Slight	.42	3.65	1.10	2.55	.0044	.0200	.0178	.0022	.13	.0010	.0001	.44	1.1	.055
111776	Oct. 6		V. Slt.	V. Slt.	.11	3.75	1.10	2.65	.0008	.0064	.0052	.0012	.14	.0050	.0001	.18	1.1	.010
112665	Nov. 12		None	V. Slt.	.17	3.00	1.05	1.95	.0012	.0074	.0068	.0006	.20	.0000	.0001	.32	0.8	.005
113263	Dec. 5		V. Slt.	V. Slt.	.10	3.00	1.15	1.85	.0006	.0046	.0042	.0004	.15	.0060	.0000	.18	0.8	.004

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MASSACHUSETTS STATE BOARD OF HEALTH.

WATER ANALYSIS OF WESTFIELD LITTLE RIVER, Springfield, 1913. (Parts in 100,000.)

PEBBLE BROOK—At junction with Borden Brook.

NO.	DATE.		APPEARANCE.			RESIDUE.			AMMONIA.				Chlorine.	NITROGEN.		Oxygen Consumed.	Hardness.	Iron.
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Total.	Volatile.	Fixed.	Free.	Albuminoid. Total	Solution.	Susp.		As Nitrates.	As Nitrites.			
105194	Jan. 10	Jan. 11	V. Slt.	V. Slt.	.35	3.45	1.30	2.15	.0016	.0112	.0104	.0008	.10	.0040	.0000	.50	1.3	.012
105821	Feb. 7		V. Slt.	V. Slt.	.25	3.45	1.60	1.85	.0006	.0072	.0062	.0010	.15	.0050	.0000	30	1.3	.015
106381	Mar. 5		V. Slt.	V. Slt.	.27	2.35	.90	1.45	.0016	.0088	.0074	.0014	.16	.0040	.0000	.32	1.3	.008
107001	Apr. 2		V. Slt.	V. Slt.	.33	3.30	1.00	2.30	.0008	.0120	.0110	.0010	.11	.0030	.0000	38	0.8	.012
107587	May 5		V. Slt.	V. Slt.	.25	4.75	1.50	3.25	.0010	.0134	.0102	.0032	..	.0030	.0001	.44	0.8	.015
108204	June 3		V. Slt.	V. Slt.	.50	3.45	1.35	2.10	.0016	.0150	.0122	.0028	.08	.0000	.0002	.52	1.3	.012
108935	July 2		None	V. Slt.	.12	3.30	1.25	2.05	.0020	.0138	.0128	.0010	.12	.0000	.0000	.19	1.0	.009
109709	Aug. 4		V. Slt.	V. Slt.	.11	3.65	1.00	2.65	.0008	.0100	.0088	.0012	.10	.0010	.0000	.19	1.3	.005
110812	Sept. 3		None	Slight	.10	3.85	1.20	2.65	.0020	.0086	.0078	.0008	.12	.0020	.0000	.18	1.1	.005
111777	Oct. 6		V. Slt.	V. Slt.	.27	5.80	1.70	4.10	.0006	.0180	.0158	.0022	.18	.0000	.0001	.44	2.8	.024
112666	Nov. 12		V. Slt.	V. Slt.	.55	4.35	1.80	2.55	.0020	.0176	.0160	.0016	.13	.0000	.0001	.76	1.0	.007
113262	Dec. 5		V. Slt.	V. Slt.	.40	3.60	1.40	2.20	.0012	.0106	.0092	.0014	.14	.0020	.0000	.45	1.0	.013

AT TUNNEL—River Water.

105199	Jan. 10	Jan. 11	V. Slt.	None	.36	2.75	1.30	1.45	.0040	.0116	.0100	.0016	.12	.0080	.0000	.46	1.3	.025
105826	Feb. 7		V. Slt.	V. Slt.	.26	3.35	1.00	2.35	.0014	.0080	.0064	.0016	.14	.0020	.0001	.32	1.3	.020
107006	April 2		Slight	V. Slt.	.35	3.85	1.20	2.65	.0028	.0102	.0092	.0010	.14	.0030	.0000	.40	0.8	.020
107592	May 5		V. Slt.	V. Slt.	.34	3.75	1.20	2.55	.0026	.0112	.0094	.0018	.15	.0000	.0002	.48	1.3	.025
108209	June 3		Slight	Slight	.41	4.35	1.35	3.00	.0028	.0188	.0134	.0054	.10	.0000	.0002	.56	1.3	.025
108939	July 2		V. Slt.	Slight	.30	4.10	1.80	2.30	.0056	.0182	.0170	.0012	13	.0010	.0001	.43	0.6	.041
109713	Aug. 4		V. Slt.	V. Slt.	.35	4.30	1.60	2.70	.0040	.0136	.0124	.0012	.09	.0040	.0001	.40	1.4	.045
110816	Sept. 3		V. Slt.	V. Slt.	.34	....	....	....	.0026	.0150	.0138	.0012	.10	.0010	.0001	.36	0.8	.045
111781	Oct. 6		Decid'd	Cons.	*.55	6.20	2.00	4.20	.0012	.0192	.0160	.0032	.17	.0060	.0000	.57	2.0	.032
112670	Nov. 12		V. Slt.	V. Slt.	.53	4.25	1.65	2.60	.0020	.0162	.0152	.0010	.15	.0010	.0002	.73	0.8	.014
113264	Dec. 5		V. Slt.	V. Slt.	.35	3.60	1.35	2.25	.0008	.0084	.0078	.0006	.16	.0050	.0000	.41	0.8	.011

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MASSACHUSETTS STATE BOARD OF HEALTH.

WATER ANALYSIS OF WESTFIELD LITTLE RIVER, Springfield, 1913. (Parts in 100,000.)

WEST PARISH FILTERS—AERATOR—As Applied to Filters.

NO.	DATE.		APPEARANCE.			RESIDUE.			AMMONIA.				Chlorine.	NITROGEN.		Oxygen Consumed.	Hardness.	Iron.
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Total.	Volatile.	Fixed.	Free.	Albuminoid. Total	Albuminoid. Solution.	Albuminoid. Susp.		As Nitrates.	As Nitrites.			
105200	Jan. 10	Jan. 11	Slight	V. Slt.	.24	3.00	0.95	2.05	.0084	.0100	.0096	.0004	.12	.0030	.0001	.32	1.3	.025
105827	Feb. 7		Slight	Slight	.15	3.55	1.55	2.00	.0028	.0116	.0070	.0046	.13	.0040	.0000	.20	1.3	.030
107007	April 2		Slight	V. Slt.	.30	3.45	1.40	2.05	.0024	.0118	.0100	.0018	.12	.0010	.0000	.34	0.8	.028
107598	May 5		V. Slt.	V. Slt.	.26	3.95	1.50	2.45	.0020	.0126	.0100	.0026	.14	.0010	.0001	.44	0.8	.025
108210	June 3		Slight	V. Slt.	.30	3.50	1.25	2.25	.0016	.0160	.0118	.0042	.10	.0000	.0001	.44	1.3	.025
108940	July 2		V. Slt.	V. Slt.	.25	3.35	0.95	2.40	.0080	.0178	.0130	.0048	.12	.0010	.0000	.28	0.8	.038
109714	Aug. 4		Slight	V. Slt.	.19	3.55	1.40	2.15	.0082	.0140	.0130	.0010	.09	.0020	.0002	.31	1.4	.041
110817	Sept. 3		V. Slt.	V. Slt.	.25	4.00	2.00	2.00	.0042	.0154	.0116	.0038	.11	.0020	.0004	.29	1.0	.035
111783	Oct. 6		Decid'd	Cons.	*.35	5.30	1.50	3.80	.0016	.0164	.0148	.0016	.16	.0040	.0001	.37	1.7	.110
112671	Nov. 12		Decid'd	V. Slt.	.22	4.10	1.10	3.00	.0072	.0208	.0142	.0066	.18	.0030	.0002	.41	0.8	.020
113265	Dec. 5		Slight	Slight	.26	3.60	1.10	2.50	.0024	.0148	.0108	.0040	.15	.0030	.0001	.44	0.8	.012

WEST PARISH FILTERS—Effluent.

105201	Jan. 10	Jan. 11	None	None	.10	3.30	....	....	.0006	.0086	....	....	.14	.0040	.0000	..	1.3	.006
105828	Feb. 7		V. Slt.	None	.11	3.10	....	....	.0002	.0050	....	....	.15	.0020	.0000	..	1.3	.010
107008	April 2		None	None	.12	....	....	....	.0020	.0082	....	....	.14	.0050	.0000	..	0.8	.004
107594	May 5		None	V. Slt.	.15	3.90	....	....	.0004	.0056	....	....	.14	.0050	.0000	..	0.8	.010
108211	June 3		V. Slt.	None	.25	3.70	....	....	.0008	.0096	....	....	.14	.0010	.0000	..	0.8	.008
108941	July 2		None	None	.17	3.20	....	....	.0020	.0094	....	....	.13	.0080	.0000	..	0.8	.013
109715	Aug. 4		None	None	.14	3.50	....	....	.0012	.0074	....	....	.13	.0060	.0000	..	1.1	.015
110818	Sept. 3		None	None	.18	3.30	....	....	.0004	.0076	....	....	.15	.0060	.0000	..	1.0	.012
111782	Oct. 6		V. Slt.	None	.12	3.90	....	....	.0012	.0090	....	....	.15	.0050	.0000	..	1.3	.011
112672	Nov. 12		None	None	.15	4.60	....	....	.0008	.0086	....	....	.21	.0000	.0001	..	1.0	.007
113266	Dec. 5		None	V. Slt.	.25	3.20	....	....	.0006	.0070	....	....	.15	.0100	.0000	..	1.0	.009

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MASSACHUSETTS STATE BOARD OF HEALTH.

WATER ANALYSIS OF LUDLOW CANAL, Springfield, 1913. (Parts in 100,000.)

NO.	DATE.		APPEARANCE.			RESIDUE.			AMMONIA.				Chlorine.	NITROGEN.		Oxygen Consumed.	Hardness.	Iron.
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Total.	Volatile.	Fixed.	Free.	Albuminoid. Total	Solution.	Susp.		As Nitrates.	As Nitrites.			
105187	Jan. 8	Jan. 10	V. Slt.	Slight	.22	2.75	1.25	1.50	.0024	.0226	.0186	.0040	.21	.0060	.0002	.29	1.3	.030
105829	Feb. 7		V. Slt.	V. Slt.	.35	4.30	1.50	2.80	.0020	.0126	.0096	.0030	.26	.0050	.0000	.38	1.7	.025
106439	Mar. 5		V. Slt.	Slight	.35	3.95	1.05	2.90	.0024	.0150	.0122	.0028	.24	.0030	.0000	.42	1.7	.015
107009	April 1		V. Slt.	V. Slt.	.27	3.75	1.20	2.55	.0020	.0182	.0136	.0046	.19	.0060	.0000	.32	0.8	.015
107696	May 7		V. Slt.	V. Slt.	.90	4.50	1.75	2.75	.0048	.0264	.0208	.0056	.19	.0020	.0000	.81	1.7	.030

WATER ANALYSIS OF LUDLOW RESERVOIR, Springfield, 1913. (Parts in 100,000.)

105188	Jan. 8	Jan. 10	V. Slt.	V. Slt.	.42	4.60	1.30	3.30	.0020	.0152	.0116	.0036	.24	.0060	.0000	.61	1.7	.020
105830	Feb. 7		V. Slt.	V. Slt.	.21	3.75	1.25	2.50	.0018	.0190	.0144	.0046	.21	.0090	.0001	.32	1.3	.030
106440	Mar. 5		V. Slt.	V. Slt.	.25	3.30	1.25	2.05	.0028	.0178	.0134	.0044	.23	.0050	.0000	.34	1.3	.015
107010	Apr. 2		None	V. Slt.	.47	4.00	1.40	2.60	.0012	.0160	.0138	.0022	.20	.0010	.0000	.55	0.8	.010
107697	May 7		V. Slt.	Slight	.31	3.95	1.00	2.95	.0086	.0200	.0168	.0032	.21	.0010	.0000	.42	1.3	.020
108334	June 7		V. Slt.	Slight	.28	3.10	1.00	2.10	.0062	.0176	.0144	.0032	.20	.0000	.0000	.39	0.8	.025
109117	July 9		V. Slt.	Slight	.20	4.90	1.40	3.50	.0068	.0272	.0176	.0096	.18	.0000	.0000	.35	1.3	.020
111806	Oct. 7		V. Slt.	V. Slt.	.27	4.00	1.60	2.40	.0282	.0842	.0808	.0034	.17	.0040	.0002	.28	0.5	.055
112469	Nov. 4		V. Slt.	Slight	.10	3.55	1.55	2.00	.0080	.0214	.0164	.0050	.18	.0090	.0002	.19	0.8	.019

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MASSACHUSETTS STATE BOARD OF HEALTH.

WATER ANALYSIS OF LUDLOW BASIN, Springfield, 1913. (Parts in 100,000.)

NO.	DATE.		APPEARANCE.			RESIDUE.			AMMONIA.				Chlorine.	NITROGEN.		Oxygen Consumed.	Hardness.	Iron.
	Collection.	Examination.	Turbidity.	Sediment.	Color.	Total.	Volatile.	Fixed.	Free.	Albuminoid.				As Nitrates.	As Nitrites.			
										Total	Solution.	Susp.						
105189	Jan. 8	Jan. 10	V. Slt.	Slight	.20	2.20	1.00	1.20	.0024	.0226	.0192	.0034	.20	.0050	.0003	.32	1.3	.030
105831	Feb. 7		V. Slt.	V. Slt.	.22	4.15	1.85	2.30	.0026	.0210	.0180	.0030	.22	.0060	.0001	.32	1.3	.025
106441	Mar. 5		None	None	.17	3.05	0.95	2.10	.0022	.0190	.0148	.0042	.20	.0050	.0000	.25	1.3	.015
107011	April 1		None	V. Slt.	.25	2.95	0.95	2.00	.0022	.0186	.0136	.0050	.20	.0160	.0001	.34	0.8	.012
107698	May 7		V. Slt.	Slight	.26	3.05	1.20	1.85	.0048	.0168	.0142	.0026	.20	.0020	.0000	.36	1.3	.018
111807	Oct. 7		Slight	V. Slt.	.26	3.80	1.50	2.30	.0216	.0256	.0196	.0060	.18	.0080	.0002	.33	1.0	.060
113283	Dec. 8		V. Slt.	V. Slt.	.17	3.30	1.40	1.90	.0032	.0160	.0142	.0018	.18	.0080	.0001	.21	1.3	.025

WATER ANALYSIS OF LUDLOW STANDPIPE, Springfield, 1913. (Parts in 100,000.)

109934	Aug. 11		V. Slt.	V. Slt.	.21	2.90	1.00	1.90	.0072	.0228	.0222	.0006	.16	.0020	.0006	.27	1.6	.034

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APPENDIX XVI.

LITTLE RIVER WATER SUPPLY SPRINGFIELD, MASS.

Operating Details at West Parish Filters—1913.

E. C. Cotton, *Superintendent.*

L. G. Carlton, *Assistant Engineer.*

FILTERS SCRAPED

Month	Number	Cubic Yards of Sand Removed			Depth in Inches		
		Maximum	Minimum	Average	Maximum	Minimum	Average
January	3	140	69	116	2.00	1.00	1.33
February	2	140	140	140	2.00	2.00	2.00
March	0	0	0	0	0	0	0
April	1	210	210	210	3.00	3.00	3.00
May	2	490	140	315	7.00	2.00	4.50
June	2	140	140	140	2.00	2.00	2.00
July	2	280	140	210	4.00	2.00	3.00
August	3	385	140	222	5.50	2.00	3.18
September	1	70	70	70	1.00	1.00	1.00
October	2	105	70	88	1.50	1.00	1.25
November	2	140	140	140	2.00	2.00	2.00
December	4	343	105	173	4.90	1.50	2.48
Year	24	222	124	166	3.17	1.77	2.34

FILTER RUNS AFTER SCRAPINGS

Month	Number Ending in	Million Gallons Filtered			Duration in Days		
		Maximum	Minimum	Average	Maximum	Minimum	Average
January	2	58.40	54.82	56.61	29	29	29
February	0	0	0	0	0	0	0
March	3	116.81	80.73	132.09	56	42	50
April	1	100.13	100.13	100.13	52	52	52
May	2	310.84	124.90	217.87	138	69	104
June	1	94.72	94.72	94.72	51	51	51
July	4	130.92	65.28	98.01	53	32	45
August	2	81.13	60.34	70.74	38	26	32
September	2	122.99	70.01	96.50	52	35	44
October	1	97.33	97.33	97.33	54	54	54
November	3	100.26	48.83	67.02	49	28	36
December	1	50.18	50.18	50.18	27	27	27
Year	22	114.88	77.02	98.29	54	40	48

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Operating Details at West Parish Filters—1913—(Concluded).

FILTER RUNS AFTER RAKINGS

MONTH	Number Ending in	Million Gallons Filtered			Duration in Days		
		Maximum	Minimum	Average	Maximum	Minimum	Average
January	3	67.77	55.87	60.90	29	24	27
February	2	50.35	34.24	42.29	29	19	24
March	0	0	0	0	0	0	0
April	1	38.87	38.87	38.87	24	24	24
May	2	99.79	86.63	93.21	53	46	50
June	2	121.53	82.68	102.11	71	42	56
July	2	112.26	78.63	95.44	45	35	40
August	2	56.27	13.28	34.78	26	5	16
September	1	138.30	138.30	138.30	54	54	54
October	2	86.41	66.25	76.33	45	37	41
November	2	134.12	93.27	113.69	66	50	59
December	4	98.88	44.73	73.90	43	28	36
Year	23	90.87	66.61	79.08	44	33	39

FILTERS RESANDED

NUMBER	Cubic Yards of Sand Replaced			Depth in Inches		
	Maximum	Minimum	Average	Maximum	Minimum	Average
8	1190	1120	1143	17	16	16.3

COST PER MILLION GALLONS DELIVERED TO CITY

	Supervision and Laboratory	Sand Handling	Coagulant	Grounds and Buildings	Equipment	Miscellaneous	Increase in Inventory	Total
Labor	$0.77	$0.52	$0.20	$0.77	$0.32	$0.09	.....	$2.67
Materials	.14	.05	.40	.21	.53	.02	.....	1.35
Total	$0.91	$0.57	$0.60	$0.98	$0.85	$0.11	-$0.38	$3.64

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APPENDIX XVII.

LITTLE RIVER WATER SUPPLY,

SPRINGFIELD, MASS.

E. C. COTTON, Superintendent.

Operating Costs at West Parish Filters — 1913.

L. G. CARLTON, Assistant Engineer.

CLASSIFICATION.	JAN.	FEB.	MAR.	APRIL.	MAY.	JUNE.	JULY.	AUGUST.	SEPT.	OCT.	NOV.	DEC.	YEARLY TOTALS.
Care of,—													
Grounds,	$59.93	$34.52	$168.78	$196.43	$290.84	$120.10	$159.69	$266.31	$191.25	$222.25	$256.25	$67.62	$2,033.97
Buildings,	36.11	20.49	119.79	46.81	31.00	5.25	.....	49.00	96.75	136.06	51.01	6.50	598.77
Equipment,	44.39	47.25	88.76	20.73	88.12	22.10	21.09	32.97	58.06	8.81	38.56	28.11	498.93
Stock and Tools,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wires,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Telephone,	14.87	.....	24.84	19.53	.....	6.75	4.50	.....	.....	6.25	.....	.....	76.74
Residences,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Supervision,	184.60	184.60	230.75	184.60	230.75	184.60	184.60	230.75	184.60	184.60	230.75	184.60	2,399.80
Laboratory,	42.00	57.25	63.25	46.84	60.84	48.00	46.00	60.00	48.00	48.00	60.00	45.00	625.18
Coagulant,—													
Hauling,	.....	.....	.....	37.78	.....	.....	.....	37.78	.....	.....	37.78	.....	113.34
Storing,	41.43	29.38	38.18	30.44	34.10	31.75	31.06	75.83	45.00	75.00	71.25	39.62	543.04
Repairs—Apparatus,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
General Cartage,	15.00	18.00	26.50	31.50	60.75	38.25	.....	.....	.....	.....	.....	.....	190.00
Gorge Gages,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Operating Gates,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stable and Stock,	44.99	46.26	69.76	49.52	67.50	52.32	54.00	67.50	54.00	56.00	67.25	48.00	677.10
Ice Harvest,	.....	124.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	124.00
Gorge Road,	.....	.....	.....	.....	.....	213.26	68.50	.....	.....	.....	.....	.....	281.76
Watchman,	.....	.....	.....	.....	.....	.....	.....	.....	.....	28.00	127.75	93.75	249.50
Total,	$483.32	$562.13	$830.61	$664.18	$863.90	$722.38	$569.44	$820.14	$677.66	$764.97	$940.60	$513.20	$8,412.53
Filter No. 1,—													
Cleaning,	.....	.....	.....	.....	$7.00	.....	$47.87	$7.25	.....	$39.44	$6.25	$47.50	$155.31
Resanding,	$114.68	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	114.68
Filter No. 2,—													
Cleaning,	5.62	$93.51	$7.38	.....	6.25	$45.37	7.00	39.00	$6.25	.....	47.50	5.69	263.57
Resanding,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Filter No. 3,—													
Cleaning,	36.18	.....	4.75		43.87		6.25	49.44	.....	36.25	6.75	101.50	284.99
Resanding,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26.37	26.37
Filter No. 4,—													
Cleaning,	26.00	.....	5.62	42.00	.....	4.25	60.00	.....	6.25	.....	34.00	.....	178.12
Resanding,	.....	.....	.....	.....	.....	.....	139.94	.....	.....	.....	.....	.....	139.94

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Filter No. 5,—													
Cleaning,	5.63	51.75	4.75	.....	.....	46.12	.....	101.54	.....	5.44	.....	45.38	255.57
Resanding,	.....	.....	.....	.....	.....	.....	.....	136.50	.....	.....	.....	.....	136.50
Filter No. 6, —													
Cleaning,	.....	.....	.....	5.92	99.18	16.28	7.85	.....	38.94	.....	6.25	41.50	215.92
Resanding,	.....	.....	.....	.....	58.38	88.36	.....	.....	.....	.....	.....	.....	146.74
Total Pay Rolls,	$671.48	$702.39	$853.11	$712.10	$1,078.58	$922.76	$838.35	$1,158.83	$729.10	$846.10	$1,021.32	$781.14	$10,330.24
Bills for Mdse. Bought,—													
Grounds,	.....	$14.35	$3.00	$137.50	$65.03	$0.75	.....	.....	$4.35	.....	.....	.....	$224.98
Buildings,	$9.58	22.10	88.93	65.20	37.00	13.95	$16.61	$45.14	98.48	$19.42	$133.81	.....	550.22
Freight and Express,	2.65	3.90	.....	11.95	6.72	15.00	.....	.....	1.19	.....	.35	$27.38	69.14
Coagulant,	.....	.....	4.00	525.00	.....	.....	.....	525.00	.....	.....	525.00	.....	1,579.00
Alum Feed Supplies,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stock and Tools,	6.36	.....	59.36	8.28	7.00	140.40	154.46	11.70	85.29	10.53	280.75	54.58	763.71
Sand Washer, Hose, Valves, Fittings,	4.00	.....	.....	.....	.....	.....	.....	.....	185.75	.....	9.10	8.72	207.57
Laboratory Supplies,	19.52	71.94	67.35	4.61	23.87	97.89	28.10	33.87	79.98	12.34	41.77	53.26	534.50
Live Stock,	26.97	6.83	11.94	16.80	7.95	15.95	18.50	34.07	18.77	.....	320.15	27.75	500.68
Repairs to Equipment,	.....	.....	1.63	.....	2.45	.....	.....	.....	.....	.....	.....	.....	4.08
General,	.....	2.80	2.15	.....	5.80	2.02	.....	5.90	.....	.....	.....	.....	18.67
Roads,	.....	.....	.....	.....	.....	35.00	34.40	.....	.....	.....	.....	.....	69.40
Auto Account,	.....	.....	.....	.....	.....	.....	654.90	26.28	108.95	.....	25.55	13.76	829.44
Medical Inspection,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	59.00	.....	59.00
Total Bills,	$69.08	$121.92	$238.36	$764.34	$155.82	$320.96	$906.97	$681.96	$527.76	$42.29	$1,395.48	$185.45	$5,410.39
Aggregate of Pay Rolls and Bills,	$740.51	$824.31	$1,091.47	$1,476.44	$1,234.40	$1,243.72	$1,745.32	$1,835.79	$1,256.86	$888.39	$2,436.83	$966.59	$15,740.63
Million Gallons Metered at Provin Mt. Reservoir,	285.57	272.93	298.47	316.92	347.08	358.03	371.44	351.77	336.17	347.96	318.18	319.47	3,918.99

Total Bills and Pay Rolls,	$15,740.63
Increase in Inventory,	1,466.73
Net Total Cost of Filter Operation—1913,	$14,273.90
Net Total Cost of Plant and Accessories,	$328,572.01
Interest at 4%,	$13,142.88
Total Cost of Operation, including Interest,	$27,416.78

Net Cost per Million Gallons Delivered to City, Operation and Maintenance only,	$3.64
Cost, including Operation, Maintenance and Interest, per Million Gallons,	$7.00
Cost per Million Gallons, Exclusive of Charges on Grounds, Buildings and Equipment,	$3.02

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REPORT

OF THE

DEPARTMENT OF STREETS AND ENGINEERING

FOR THE FISCAL YEAR ENDING NOVEMBER 29, 1913

ADMINISTRATIVE

SPRINGFIELD, MASS., December 28, 1913.

To the City Council:—

In accordance with the requirements of Chapter 19, Section 5, of the Revised Ordinances, I have the honor to submit herewith the annual report of the Superintendent of Streets and Engineering, together with the reports of the several deputies in charge of Divisions as authorized by the ordinance of the City Council consolidating the Departments of Streets, Engineering, Sewers, Lighting and Forestry.

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FINANCIAL STATEMENT.

Objects of Expenditure.	Appropriation.	Expenditures.	Credit Transfers.	Debit Transfers.	1913 Total Debits.	Unexpended Balance.	Accounts Overdrawn.
ADMINISTRATION.							
Personal Services.							
1 Clerical	$6,037 86	$7,381 69	$1,396 79	....	$5,984 90	$52 96	....
2 Salaries	14,074 65	14,207 33	160 00	....	14,047 33	27 32	....
3 Fees and compensations for special services	100 00	647 21	756 75	$200 00	90 46	9 54	....
Supplies and Materials.							
4 Stationery and office supplies	591 00	1,217 62	600 00	....	617 62	....	$26 62
5 Contingencies	1,183 00	967 75	....	200 00	1,167 75	15 25	....
6 Equipment, furniture and fittings, transportation and communication	25 00	84 65	....	....	84 65	....	59 65
7 Transportation of persons	225 00	670 67	477 42	....	193 25	31 75	....
8 Telephone service	360 00	389 47	....	....	389 47	....	29 47
9 Postage, telegraph and messenger	173 50	179 32	3 97	....	175 35	....	1 85
Special Contractual Services.							
10 Publication and advertising	187 00	49 58	..	137 42	187 00	....	....
11 Printing and binding	915 00	1,426 17	800 00	100 00	726 17	188 83	....
Fixed Charges.							
12 Rent, insurance, light, and gas, auto registration	1,035 00	2,085 70	1,079 93	....	1,005 77	29 23	....
Total for Administration	$27,907 01	$29,307 16	$5,274 86	$637 42	$24,669 72	$354 88	$117 59
					Less accounts overdrawn	117 59	
					Total unexpended balance	$237 29	

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FINANCIAL STATEMENT.—*Continued.*

Objects of Expenditure.	Appropriation.	Expenditures.	Credit Transfers.	Debit Transfers.	1913 Total Debits.	Unexpended Balance.	Accounts Overdrawn.
ENGINEERING.							
Personal Services.							
13 Salaries	$13,524 00	$14,535 40	$1,011 69	....	$13,523 71	$0 29	....
Supplies and Materials.							
14 Stationery and office supplies	450 00	354 04	....	$100 00	454 04	....	$4 04
Equipment.							
15 Tools and other equipment	1,000 00	249 47	....	750 00	999 47	53	....
Transportation and Communication.							
16 Transportation of persons	860 00	447 95	....	440 00	887 95	....	27 95
Total for Engineering	$15,834 00	$15,586 86	$1,011 69	$1,290 00	$15,865 17	$0 82	$31 99
						Total unexpended balances	82
						Total accounts overdrawn	$31 17

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FINANCIAL STATEMENT.—*Continued.*

Objects of Expenditure.	Appropriation.	Expenditures.	Credit Transfers.	Debit Transfers.	1913 Total Debits.	Unexpended Balance.	Accounts Overdrawn.
SEWERS.							
Personal Services.							
Wages.							
17 Construction	$23,000 00	$25,668 86	$7,092 81	$4,315 00	$22,891 05	$108 95	....
18 Maintenance	5,975 00	4,470 61	275 96	1,700 00	5,894 65	80 35	....
Fees and Compensation for Special Service.							
19 To Water Department	750 00	1,007 52	257 52	....	750 00	....	....
Supplies and Materials.							
20 Supplies and material for departmental labor	16,150 00	22,809 50	6,902 16	200 00	16,107 34	42 66	....
Special Contractual Services.							
21 Hire of horses and trucks	775 00	930 59	573 39	300 00	657 20	117 80	....
22 Refunds	700 00	715 69	....	....	715 69	....	$15 69
23 Unpaid Bills	600 00	600 00	....	....	600 00	....	....
Total for Sewers	$47,950 00	$56,202 77	$15,101 81	$6,515 00	$47,615 93	$349 76	$15 69
					Less overdrawn accounts	15 69	
					Total balance unexpended	$334 07	

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FINANCIAL STATEMENT.—*Continued.*

Objects of Expenditure.	Appropriation.	Expenditures.	Credit Transfers.	Debit Transfers.	1913 Total Debits.	Unexpended Balance.	Accounts Overdrawn.
GARBAGE REMOVAL.							
Personal Services.							
24 Operation.....	$15,641 00	$16,862 91	$1,452 41	....	$15,410 50	$230 50	....
Special Contractual Services.							
25 Hire of horses and trucks..	2,400 00	825 00	....	$1,540 25	2,365 25	34 75	....
Total for Garbage Removal.....	$18,041 00	$17,687 91	$1,452 41	$1,540 25	$17,775 75	$265 25	....

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FINANCIAL STATEMENT.—*Continued.*

Objects of Expenditure.	Appropriation.	Expenditures.	Credit Transfers.	Debit Transfers.	1913 Total Debits.	Unexpended Balance.	Accounts Overdrawn.
ASHES AND WASTE REMOVAL.							
Personal Services.							
26 Operation wages.....	$33,125 64	$39,015 96	$6,000 00	....	$33,015 96	$109 68	....
Special Contractual Services.							
27 Hire of horses and trucks..	6,600 00	5,763 17	....	$800 00	6,563 17	36 83	....
28 Indian Orchard contract...	750 00	834 00	58 00	....	776 00	....	$26 00
Total for Ashes and Waste Removal	$40,475 64	$45,613 13	$6,058 00	$800 00	$40,355 13	$146 51	$26 00
					Less accounts overdrawn.....	26 00	
					Total unexpended balance.....	$120 51	

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FINANCIAL STATEMENT.—*Continued*

Objects of Expenditure.	Appropriation.	Expenditures.	Credit Transfers.	Debit Transfers.	1913 Total Debits.	Unexpended Balance.	Accounts Overdrawn.
STREET CLEANING.							
Personal Services.							
Wages.							
29 Operation.....	$40,000 00	$52,445 25	$13,400 00	$400 00	$39,445 25	$554 75	....
Special Contractual Services.							
30 Hire of horses and trucks..	21,400 00	17,653 03	....	3,150 00	20,803 03	596 97	....
Total for Street Cleaning.....	$61,400 00	$70,098 28	$13,400 00	$3,550 00	$60,248 28	$1,151 72	....

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FINANCIAL STATEMENT.—*Continued.*

Objects of Expenditure.	Appropriation.	Expenditures.	Credit Transfers.	Debit Transfers.	1913 Total Debits.	Unexpended Balance.	Accounts Overdrawn.
HIGHWAYS.							
Personal Services.							
Wages.							
31 Construction	$47,075 00	$48,005 42	$4,400 00	$4,093 84	$47,699 26	....	$624 26
32 Maintenance	20,000 00	28,590 50	9,409 07	....	19,181 43	$818 57	....
Supplies and Materials.							
33 Fuel	3,000 00	3,602 48	910 25	....	2,692 23	307 77	....
34 Supplies and material for departmental labor	174,000 00	170,287 05	671 95	1,794 00	171,409 10	2,590 90	....
Special Contractual Services.							
35 Hire of horses and trucks	91,400 00	52,193 42	58 40	38,899 07	91,034 09	365 91	....
36 Paving repairs	3,500 00	2,931 11	222 15	....	2,708 96	791 04	....
37 Refunds	500 00	....	....	....	....	500 00	....
Acquisitions and Improvement of Property (Contracts).							
38 Permanent paving	45,000 00	55,235 93	10,300 00	....	44,935 93	64 07	....
39 Mixing plant	13,000 00	13,280 45	....	....	13,280 45	....	280 45
40 Macadam	8,125 00	....	....	8,125 00	8,125 00	....	....
41 Unpaid bills	8,150 00	8,145 14	....	....	8,145 14	4 86	....
Total for Highways	$413,750 00	$382,271 50	$25,971 82	$52,911 91	$409,211 59	$5,443 12	$904 71
					Less overdrawn accounts	904 71	
					Total unexpended balance	$4,538 41	

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FINANCIAL STATEMENT.—*Continued.*

Objects of Expenditure.	Appropriation.	Expenditures.	Credit Transfers.	Debit Transfers.	1913 Total Debits.	Unexpended Balance.	Accounts Overdrawn.
BRIDGES.							
Personal Services.							
Wages.							
42 Maintenance	$3,250 00	$3,405 67	$155 67	....	$3,250 00	....	....
Supplies and Materials.							
43 Supplies and material for department labor	2,600 00	3,853 79	1,253 79	....	2,600 00	....	....
Special Contractual Services.							
44 Hire of horses and trucks	550 00	244 97	....	....	244 97	$305 03	....
Acquisition and Improvement of Property.							
45 Improvement contracts	....	1,406 41	1,049 96	....	356 45	....	$356 45
Total for Bridges	$6,400 00	$8,910 84	$2,459 42	....	$6,451 42	$305 03	$356 45

Less total unexpended balance	305 03
Total accounts overdrawn	$51 42

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FINANCIAL STATEMENT.—*Continued.*

Objects of Expenditure.	Appropriation.	Expenditures.	Credit Transfers.	Debit Transfers.	1913 Total Debits.	Unexpended Balance.	Accounts Overdrawn.
SIDEWALKS AND CURBING.							
Personal Services. Wages.							
46 Construction	$3,800 00	$11,126 30	$7,301 50	....	$3,824 80	....	$24 80
47 Maintenance	8,905 00	6,716 13	13 15	$1,910 00	8,612 98	$292 02	....
Supplies and Materials.							
48 Supplies and materials for departmental labor	11,525 00	11,367 91	1,033 62	1,500 00	11,834 29	....	309 29
Special Contractual Services.							
49 Hire of horses and trucks	4,350 00	5,922 36	1,610 00	....	4,312 36	37 64	....
50 Unpaid bills	2,021 00	2,021 00	....	....	2,021 00	....	....
Totals of Sidewalks and Curbing	$30,601 00	$37,153 70	$9,958 27	$3,410 00	$30,605 43	$329 66	$334 09

Total unexpended balances	329 66
Total accounts overdrawn	$4 43

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FINANCIAL STATEMENT.—*Continued.*

Objects of Expenditure.	Appropriation.	Expenditures.	Credit Transfers.	Debit Transfers.	1913 Total Debits.	Unexpended Balance.	Accounts Overdrawn.
STREET SPRINKLING.							
Personal Services. Wages.							
51 Operation	$975 00	$471 75	....	$450 00	$921 75	$53 25	....
Fees and Compensation for Special Services.							
52 To Assessors' office	375 00	343 25	....	31 75	375 00	....	....
53 To Water Department	1,000 00	742 39	....	125 00	867 39	132 61	....
Special Contractual Services.							
54 Hire of horses and trucks	7,400 00	6,505 50	....	888 00	7,393 50	6 50	....
55 Car sprinklers	8,500 00	8,982 51	$488 00	....	8,494 51	5 49	....
Total for Sprinkling	$18,250 00	$17,045 40	$488 00	$1,494 75	$18,052 15	$197 85	....

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FINANCIAL STATEMENT.—*Continued.*

Objects of Expenditure.	Appropriation.	Expenditures.	Credit Transfers.	Debit Transfers.	1913 Total Debits.	Unexpended Balance.	Accounts Overdrawn.
OILING STREETS.							
Personal Services.							
Wages.							
56 Operation.....	$200 00	$442 82	$600 00	$300 00	$142 82	$57 18	....
Supplies and Materials.							
57 Supplies and material for departmental labor...	19,625 00	17,542 58	....	2,027 00	19,569 58	55 42	....
57A Hired teams.....	....	71 54	200 00	100 00	*28 46	28 46	....
Total for Oiling Streets.....	$19,825 00	$18,056 94	$800 00	$2,427 00	$19,683 94	$141 06	....

* Credit Balance.

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FINANCIAL STATEMENT.—*Continued.*

Objects of Expenditure.	Appropriation.	Expenditures.	Credit Transfers.	Debit Transfers.	1913 Total Debits.	Unexpended Balance.	Accounts Overdrawn.
LIGHTING.							
Personal Services. Wages.							
58 Construction and Maintenance	$2,047 35	$2,337 59	$300 00	....	$2,037 59	$9 76	....
Supplies and Materials.							
59 Supplies and materials for departmental labor	3,671 80	1,414 42	....	$2,269 09	3,683 51	....	$11 71
Special Contractual Services.							
60 Hire of horses and trucks	50 00	2 00	....	48 00	50 00	....	....
61 Lighting streets and bridges	111,583 20	119,604 46	9,300 00	1,282 91	111,587 37	....	4 17
Total for Lighting	$117,352 35	$123,358 47	$9,600 00	$3,600 00	$117,358 47	$9 76	$15 88
					Total unexpended balances		9 76
					Total accounts overdrawn		$6 12

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FINANCIAL STATEMENT.—*Continued.*

Objects of Expenditure.	Appropriation.	Expenditures.	Credit Transfers.	Debit Transfers.	1913 Total Debits.	Unexpended Balance.	Accounts Overdrawn.
REPAIR SHOP.							
Personal Services.							
62 Wages	$5,900 00	$5,117 96	$103 00	$900 00	$5,914 96	....	$14 96
Supplies and Materials.							
63 Supplies and materials for departmental labor	2,925 00	5,388 00	2,477 00	....	2,911 00	$14 00	....
62A Hired teams	....	69 48	122 97	50 00	*3 49	3 49	....
63A Unpaid bills	....	....	....	....	....	....	....
Totals for Repair Shop	$8,825 00	$10,575 44	$2,702 97	$950 00	$8,822 47	$17 49	$14 96
					Total accounts overdrawn	14 96	
					Total unexpended balances	$2 53	

* Credit Balance.

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FINANCIAL STATEMENT.—*Continued.*

Objects of Expenditure.	Appropriation.	Expenditures.	Credit Transfers.	Debit Transfers.	1913 Total Debits.	Unexpended Balance.	Accounts Overdrawn.
STABLES AND YARDS.							
Personal Services.							
64 Wages	$9,762 00	$12,078 93	$2,314 94	....	$9,763 99	....	$1 99
64A Hired teams	....	114 19	100 00	....	14 19	....	14 19
Supplies and Materials.							
65 Fuel	1,050 00	872 88	....	$400 00	1,272 88	....	222 88
66 Forage	13,650 00	8,850 00	....	4,800 00	13,650 00	....	....
67 Supplies for horse-drawn equipment	225 00	532 58	300 00	....	232 58	....	7 58
68 Supplies for automobile equipment	5,585 00	3,590 07	400 00	2,300 00	5,490 07	$94 93	....
Total for Stables and Yards	$30,272 00	$26,038 65	$3,114 94	$7,500 00	$30,423 71	$94 93	$246 64
					Total unexpended balances		94 93
					Total accounts overdrawn		$151 71

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FINANCIAL STATEMENT.—*Continued.*

Objects of Expenditure.	Appropriation.	Expenditures.	Credit Transfers.	Debit Transfers.	1913 Total Debits.	Unexpended Balance.	Accounts Overdrawn.
EQUIPMENT.							
69 Vehicles	$10,650 00	$9,434 10	....	$1,200 00	$10,634 10	$15 90	....
70 Live stock	5,000 00	4,875 00	....	125 00	5,000 00	....	....
71 Tools and other equipment.	18,700 00	21,852 15	$3,774 56	600 00	18,677 59	22 41	....
Special Contractual Services.							
72 Shoeing and veterinary services	680 00	678 38	....	....	678 38	1 62	....
73 Repairs to equipment	1,695 00	1,962 71	300 00	....	1,662 71	32 29	....
Acquisition and Improvement of Property.							
74 Improvement contract	4,300 00	4,870 88	600 00	....	4,270 88	29 12	....
75 Unpaid bills	....	....	....	....	....	....	....
Total for Equipment	$41,025 00	$43,673 22	$4,674 56	$1,925 00	$40,923 66	$101 34	....

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FINANCIAL STATEMENT.

Functional Expense.

Functions.	Appropriation.	Expenditures.	Credit Transfers.	Debit Transfers.	1913 Total Debits.	Unexpended Balance.	Accounts Overdrawn.
Administration	$24,907 01	$29,307 16	$5,274 86	$637 42	$24,669 72	$237 29	....
Engineering	15,834 00	15,586 86	1,011 69	1,290 00	15,865 17	....	$31 17
Sewers	47,950 00	56,202 77	15,101 84	6,515 00	47,615 93	334 07	....
Garbage removal	18,041 00	17,687 91	1,452 41	1,540 25	17,775 75	265 25	....
Ashes and waste removal	40,475 64	45,613 13	6,058 00	800 00	40,355 13	120 51	....
Street cleaning	61,400 00	70,098 28	13,400 00	3,550 00	60,248 28	1,151 72	....
Highways	413,750 00	382,271 50	25,971 82	52,911 91	409,211 59	4,538 41	....
Bridges	6,400 00	8,910 84	2,459 42	....	6,451 42	....	51 42
Sidewalks and curbing	30,601 00	37,153 70	9,958 27	3,410 00	30,605 43	....	4 43
Sprinkling streets	18,250 00	17,045 40	488 00	1,494 75	18,052 15	197 85	....
Oiling streets	19,825 00	18,056 94	800 00	2,427 00	19,683 94	141 06	....
Lighting streets	117,352 35	123,358 47	9,600 00	3,600 00	117,358 47	....	6 12
Repair shop	8,825 00	10,575 44	2,702 97	950 00	8,822 47	2 53	....
Stables and yards	30,272 00	26,038 65	3,114 94	7,500 00	30,423 71	....	151 71
Equipment	41,025 00	43,673 22	4,674 56	1,925 00	40,923 66	101 34	....
Totals	$894,908 00	$901,580 27	$102,068 78	$88,551 33	$888,062 82	$7,090 03	$244 85
					Less accounts overdrawn	244 85	
					Total unexpended balance	$6,845 18	

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FINANCIAL STATEMENT.—*Continued.*

SPECIAL FUND ACCOUNTS

Function.	Balance from 1912.	Appropriation.	Credit Transfers.	Debit Transfers.	Expenditures.	Unexpended Balance.
Garbage disposal, State street	$17,192 97	....	....	$2,500 00	$2,395 58	$12,297 39
Rubbish disposal, South end	9,224 48	....	....	7,896 71	1,327 77	....
Rubbish disposal, West street	....	....	$10,396 71	....	7,195 97	3,200 74
Birnie avenue extension	1,950 63	....	12,643 24	....	13,806 03	787 84
Pecousic avenue	3,267 83	....	....	....	....	3,267 83
Page boulevard	13,318 55	....	9,172 16	....	16,532 37	5,958 34
Sherman Road layout	100 00	....	....	....	....	100 00
Water street widening	10,004 00	....	6,879 89	....	16,883 89	....
Belmont avenue special	3,600 00	....	11,443 54	....	15,043 54	....
Locust street improvement	....	....	4,673 67	248 29	2,734 46	1,690 92
Cross street widening	....	....	16,800 00	....	16,601 22	198 78
Highway street signs	....	....	119 43	....	119 43	....
Dwight and Water streets	....	$400,000 00	....	....	2,834 15	397,165 85
Albany street sewer	....	50,000 00	....	....	49,888 55	111 45

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INVENTORY.

DEPARTMENT OF STREETS AND ENGINEERING.

Lands.		
City Yard, Summer street,	$76,700 00	
South End Yard, Pecousic avenue,	8,500 00	
Ashes and Garbage Station, State street,	12,000 00	
City Yard, Logan street,	10,800 00	
Gravel bank, Five Mile pond,	100 00	
Gravel bank, Island pond,	350 00	
Gravel bank, Boston road,	75 00	
Trap rock quarry, Westfield,	250 00	
		$108,775 00
Buildings and structures.		
Summer street buildings,	$19,000 00	
South End barn, Pecousic avenue,	50 00	
South End incinerator, Pecousic avenue,	2,500 00	
Street lighting, storehouse and sheds at Pecousic avenue,	200 00	
Roller house and shed, Pecousic avenue,	400 00	
South End machine and carpenter shops, Pecousic avenue,	14,800 00	
House for barn man, Pecousic avenue,	500 00	
Trap rock bins and trestle, Summer street,	9,000 00	
State street ashes and garbage station,	600 00	
		$47,050 00
Horses and vehicles.		
Eight automobiles,	$3,850 00	
Two automobile trucks,	7,400 00	
Fifty-one horses,	11,900 00	
Three motorcycles,	450 00	
Fifty wagons,	4,500 00	
Twenty-six sleighs and sleds,	766 00	
Twenty-two water carts,	3,200 00	
		$32,066 00
Tools and equipment.		
Asphalt plant,	$8,328 80	
Nine steam road rollers,	15,427 00	
Other highway tools and road machinery,	6,785 38	

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Sewer tools and equipment,	$1,014 40	
Machine shop, equipment,	315 01	
Ashes, garbage and waste division, equipment,	84 50	
Stables and yards, equipment,	144 00	
Equipment for horse drawn vehicles,	889 70	
Street signs,	1,718 89	
Blacksmith shop, equipment,	279 02	
Carpenter shop, equipment,	1,042 87	
Street lighting shop, equipment,	353 26	
Engineering equipment,	2,064 30	
Office equipment,	1,510 55	
		$39,957 68

Supplies and materials.

Highway supplies and materials,	$10,657 60	
Stables and Yard, supplies and materials,	34 75	
Provender and supplies for rolling stock,	703 06	
Walks and Curbing, supplies and materials,	231 44	
Machine shop, stock,	581 61	
Blacksmith shop, stock,	272 14	
Carpenter shop, stock,	772 83	
Street lighting, mastarms, goosenecks and meters,	26,346 00	
Office supplies and materials,	75 00	
		$39,674 43
Grand total,		$267,523 11

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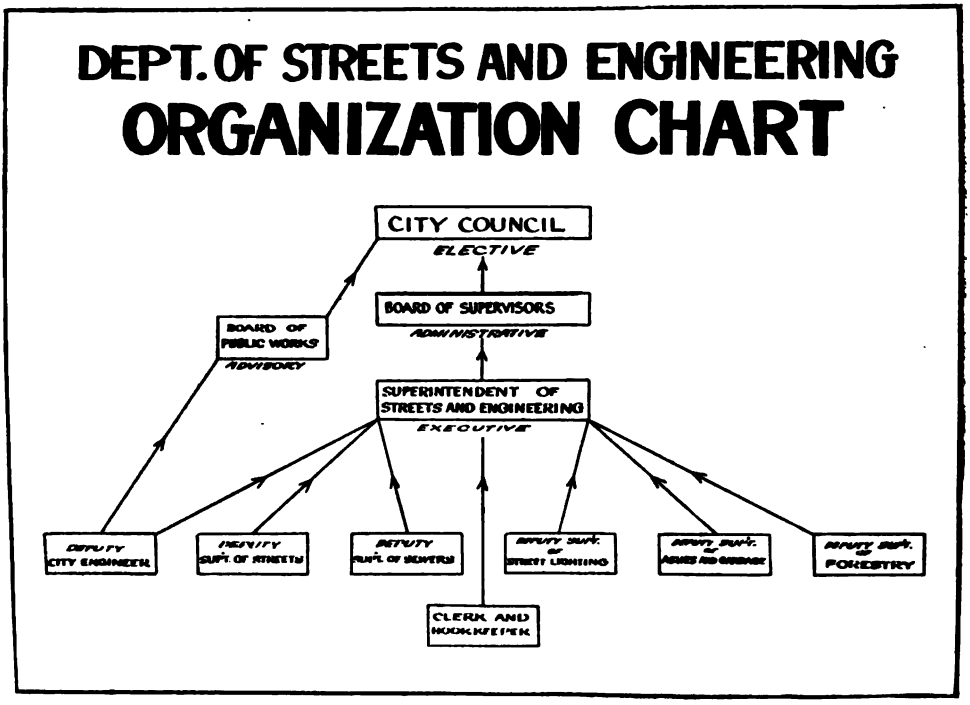
ORGANIZATION.

In assuming the duties of the Superintendent of Streets and Engineering it was with the understanding that much was expected to be accomplished during the year, particularly in the line of street construction.

In order that results might be attained the problem of organization became of first importance, and by the advice and consent of the Board of Supervisors the arrangement as shown on the accompanying chart was effected and put in operation early in the spring.



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ADMINISTRATION.

Time was not sufficient to install a comprehensive accounting system such as is required for the combined departments before the season was well advanced. In the meantime, it was necessary to continue for a time, as the best way possible, the former method of separate and independent accounts.

The necessity of changing the method of accounting in the midst of a very busy season may render some of the accounts somewhat vague and indefinite.

The equipment required by the Division of Streets, as well as that of Ashes and Garbage, has been largely increased and improved. Old and worn-out horses have been replaced by young stock and others purchased to provide for the increased haul of garbage.

In order to accomplish the task of building over ten miles of improved streets and roads, almost entirely by day labor, and at the same time maintain, clean, and lay dust on an excess of ninety miles already built, it was absolutely essential that additional machinery be purchased and it is confidently believed that the department is to-day better equipped for street work than any other city of equal size in the country.

Perhaps the most important piece of equipment purchased by the department is the asphalt mixing plant erected at the Summer Street Yard at a cost of $8,500.00. It is a so-called semi-portable plant which enables the department to mix and lay any class of bituminous pavement, the new surface on Dickinson street from Marengo Park to Sumner avenue being a sample of the output of the machine.

Summer Street Yard has been much improved by the erection of an office building, two wagon sheds, and the alteration of the open brick shed to a commodious garage.

The office building is so constructed as to contain the scale beams, thus permitting all material leaving the yard to be weighed and the correct charge made against the work in

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progress. The necessity of this was amply demonstrated by the fact that shortly after its installation, the weight of loads of stone leaving the yard increased twenty-five to thirty-three per cent.

The need of a workshop was early in evidence, rolling stock by continued exposure to weather was falling to pieces, the increased number of horses demanded the service of the blacksmith, and the necessity of paint was not to be questioned. The practice of having horses shod at private shops was rendered expensive and a hindrance by the loss of time of the men and teams from the work, which could be remedied by a department shop with hours of labor so arranged as not to interfere with the work of the teams.

The Forestry Building on Pecousic avenue was therefore utilized and the necessary machinery installed for a complete repair shop, having ample facilities for wheelwright, carpenter, blacksmith, and painter.

While much has been accomplished in the way of equipment there still remains a great need of a new and modern barn at the South End Yard for the stabling of the horses used by the Ashes and Garbage Division. There is also demand for a roller house to afford proper care of the nine steam rollers now owned by the department. I also desire to recommend that the stone trestle at Summer Street Yard be extended and enlarged, the need of which has been constantly in evidence during the past season.

ENGINEERING.

The Engineering Division has been reorganized and a principal assistant assigned to the engineering work for each division, with the result of increased efficiency.

STREETS.

Much attention has been given the Division of Streets,

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and the department points with pride to the results accomplished.

Ten per cent. of all paved streets in the city were done during the season of 1913 and by the continuance of the liberal appropriations for new construction and resurfacing Springfield will be in a class by itself for "good roads."

I cannot urge too strongly the necessity for permanent pavements on those narrow streets, thoroughfares in fact, containing car tracks. Concentrated traffic all moving in the same ruts necessitates a cost of maintenance which would more than meet a high rate of interest on the cost of a first-class pavement.

SEWERS.

The usual work of the Sewer Division has been augmented this season by the construction of the East Springfield sewer, which was accomplished at a very satisfactory saving over the estimated cost.

The growth of the city renders the extension of the system imperative in nearly all directions.

Surveys will be made the coming winter of the district east of Allen street, as it is now apparent that the time is not far distant when the demand for sewers will have to be supplied, and the problem of how best to conduct the sewage to its outlet is already evident.

STREET LIGHTING.

The results obtained in the Division of Street Lighting during the year have been very satisfactory, but the time has come when a more modern system for business streets should be adopted. Extensive studies preparatory to the renewal of the contract, which will terminate next May, are being made and the many different schemes for municipal lighting are under consideration.

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I somewhat doubt the advisability of continuing the present arrangement of the city owning and maintaining the light poles, as it is necessary for both the city and the contractor to carry men and equipment for doing the same work, and I can see no reason why the contractor should not be able to assume the entire burden at a considerable saving to the city.

ASHES AND GARBAGE.

The division is now well established on the basis of separate collections of ashes, rubbish, and garbage, revised rules for which have been published, with the hope that the householder will strive with the department towards its success in affording adequate service to all.

Early in March the division began the delivery of garbage to the plant of the Springfield Merg Reduction Company on State street, in accordance with the contract made in 1912, but owing to the failure of a portion of the machinery the company has been unable to care for the entire product of the city. Such private collectors as had not disposed of their hogs have therefore been allowed to continue. The company has arranged to make such additions and changes as appear necessary and it is confidently expected that they will be able to receive the entire output before warm weather.

BRIDGES.

Bridges have required more attention during the season than was anticipated. The old toll bridge cannot be expected to serve its purpose much longer as the marks of time and heavy loads are conspicuous in every member. An inspection made in the early spring showed many weak points and steps were immediately taken to strengthen the structure wherever possible by timber arches, re-enforced joints and lateral brac-

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ings. It was also deemed advisable to reduce the weight of loads allowed to pass over the bridge and an additional officer was stationed on the bridge to enforce the regulations.

In order to detect any movement in the bridge a base line has been established through the bridge from which test measurements are made on the first day of each month, readings recorded and comparisons made.

The two bridges crossing the railroads on Armory street were found to be in very bad condition upon an attempt being made to renew the floors. This was called to the attention of the railroad companies, upon whom rests the burden of maintenance of the structures. Extensive repairs were made on both bridges by the railroad companies and entirely new floors were laid by the department.

The bridge across the Chicopee River between Indian Orchard and Ludlow has been painted and a new floor laid upon that portion of the structure under care of the city.

The so-called Red House Crossing bridge on Berkshire avenue has been painted and replanked, but I believe that the structure is unsuited to the traffic of to-day and it should be replaced by a new and stronger bridge.

Plainfield Street bridge over the B. &. M. railroad is badly corroded by the action of gas from locomotives. It is narrow and inadequate to the demands of existing traffic, and I strongly recommend that a wider and more stable structure be built early in the coming year.

Other bridges have been inspected and are in fair condition.

FORESTRY.

The care of trees in city streets is so closely allied with the work of the Park Department that it was deemed advisable to reorganize the Division of Forestry on lines somewhat more radical than in other cases. To cite examples: The forester

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plants and maintains the trees in the tree-belt or walks, yet on numerous streets there are small grass plots or parks on which the forester has no jurisdiction. There are perhaps as many trees in the city under the care of the park commissioners as under the Forester, consequently each department required the same kind of machines, tools, and materials, and employed the same class of labor, in fact, a duplication throughout.

This question was given due consideration and it is believed quite satisfactorily solved, for the present at least, by the appointment of Mr. J. Alden Davis as Deputy Forester, he having a similar assignment from the Board of Park Commissioners. The salary for Mr. Davis for the year has been equally divided between the two departments.

CONCLUSION.

I wish at this time to express my appreciation of the most cordial co-operation received during the year from the several deputies who have rendered excellent service to the city.

And to His Honor, the Mayor, Alderman Cook and Councilman Marsh, the Board of Supervisors, is due the larger part of the credit for the accomplishments of the year.

Respectfully submitted,

FRED H. CLARK,

Superintendent of Streets and Engineering.

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REPORT

OF

ENGINEERING DIVISION

FOR FISCAL YEAR ENDING NOVEMBER 30, 1913.

SPRINGFIELD, MASS., December 27, 1913.

To F. H. Clark, Superintendent of Streets and Engineering, City.

The report of the work of the Engineering Division for the fiscal year of 1913 is herewith submitted.

ORGANIZATION.

Under the new consolidation ordinance passed late in the year 1912, Mr. Edward G. Martin was appointed assistant in charge of Street work, and Mr. Charles J. Hancock assistant in charge of Sewer work. Mr. Edward W. Burnett, Mr. Ernest F. Young, and Mr. Charles A. L. Wright were appointed general assistants.

Mr. Burnett and Mr. Young have been assigned general work of field and office not included in the work of Streets and Sewers, under direction of Assistants Martin and Hancock. Mr. Young has expended considerable time on surveys and plans for the Assessors when his services were not required for the general work and Board of Public Works matters. Mr. Burnett has been employed upon the general work of the office, much time having been devoted to plans and profiles needed for data used in reports of the Board of Public Works. Mr. Wright, as for several years past, was detailed early in the season for general inspection and supervision of the paving

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and bituminous macadam work. Since the erection of the new asphalt plant and the new laboratory for paving operations, Mr. Wright has had general charge of the same.

Early in the season Mr. Martin and Mr. Hancock were assigned the number of instrumentmen and rodmen needed for the work under their charge.

Former Principal Assistant to the City Engineer, Mr. Herbert E. Flint, after a service of thirty years, was retired, as under the reorganization scheme it was decided that the office of principal assistant should be abolished.

The entire office and field force employed at present includes seventeen men besides the stenographer and general office clerk.

NEW QUARTERS.

The Engineering Department installed in the Water Commissioners' building in 1881 was moved to the fourth or top floor of the new Municipal Building late in October of the present year, where larger and more commodious quarters have been provided, a general office, a draughting room, and a room assigned to the Board of Public Works for general meetings and hearings, all of which are connected with the general office room. A large fireproof vault is connected with the draughting room, which is approached by a flight of stairs from the floor of the draughting room, an unavoidable feature by reason of the architectural design of the building front.

There is a detached room on the same floor used for blueprinting and photography, containing a new electric blueprinting machine, washing and drying apparatus, also a small dark room. The new quarters are provided with overhead skylights and floor area, as follows:—

General office,.....	768 square feet
Draughting room,.....	1,656 square feet
Board of Public Works room,...	414 square feet

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GENERAL.

The Engineering Division has responded to the numerous calls of the several city departments and boards as well as outside contractors and individuals during the year. As the city grows and increasing demand is made from year to year, plans, specifications, and contracts have been prepared for the several additional structures at the city yard, consisting of wagon sheds, garage, office building, and garbage tipple. Plans have been made also for piping the steam boiler used for heating road oils. Also plans have been recently drawn for renewal of the trestle at the city yard for unloading trap rock from cars, and a concrete masonry abutment at one end of the same.

STREET AND SEWER WORK.

The unusual appropriation for street improvements has required a large service in estimating and laying out work as well as measurements and estimates for monthly and final payments.

The work of sewer construction has called for more than the usual service. A considerable part of the sewer work was involved in the extension of the Garden Brook sewer from Armory street to St. James avenue, which, with the construction in Page boulevard during 1912, completes the main trunk sewer for the drainage of the East Springfield district, with its large and important manufacturing enterprises.

Early in the springtime the Gunn Square and Gunn Brook conditions were greatly improved by the laying of a pipe sewer from the Mill River Valley intercepting sewer at Hickory street through the Gunn Brook valley to Gunn Square, thereby effecting far better sanitary conditions for this section, concerning which loud complaint has been made for several years by the residents of the locality. The improvement also has

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an important bearing upon the ice supply of Massasoit Lake or Water Shops Pond.

BOARD OF PUBLIC WORKS.

A considerable part of the time and services of the Deputy City Engineer is required by the Board of Public Works in general engineering and clerical services. One hundred and fifty-four meetings and hearings have been given by the board.

The work of the board during the year has been attended with many large and important projects, some of which are now pending, the more important of which are included in the following.

WATER STREET WIDENING.

The widening of Water street on the westerly side, between Whitney avenue and Bliss street, has been considered on petition duly referred by the City Council. The usual hearings required by law have been given and a favorable report made to the City Council, based on a widening of 30½ feet. The matter has been recommitted to the board for further consideration of the matter of damages to land and buildings and is now in the hands of the board for final consideration and report.

The board has also considered a petition for extension of the widening on the same side, from Bliss street to the Boston and Albany railroad. A hearing has been given upon the question of necessity and convenience and is now in the hands of the board for further and final consideration.

HILLMAN STREET EXTENSION.

A petition referred to the board for extension of Hillman street, from Dwight to Chestnut street, has involved many

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hearings and interviews with property owners affected by the extension. A report was finally made, favorable to the petitioners. The matter has been recommitted to the board twice by the City Council for an extension of time in which an order should be passed by the City Council, in compliance with one of the several conditions imposed in the release furnished by the Appleton estate. The board is now awaiting further extension of time in order that the matter may be finally submitted to the City Council.

HICKORY STREET RELOCATION AND WIDENING.

This matter was first considered by the board under petition referred late in 1912, and after the usual hearings a release was presented to parties interested in order that the board might ascertain how far the abutting property interests were willing to waive claims for damages. After a time the release was returned and the board made a favorable report to the City Council recommending a widening from 49½ to 60 feet. At the same time a considerable straightening was effected. The estimated cost of grading and macadamizing was $10,500. This matter has not yet finally passed the City Council. This alteration of Hickory street, as recommended, would bring about an important improvement, according to general opinion, its location bordering on the westerly shore of a very picturesque body of water, Massasoit Lake, making one of the fine pleasure drives of the city, in addition to the gain in point of public convenience.

TAYLOR STREET EXTENSION AND WIDENING.

The widening of Taylor street, between Dwight and Chestnut streets, and extension easterly from Chestnut street to Spring street, has been the subject of much consideration and

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several hearings by the board. A considerable complication has arisen by reason of the diverse property interests. The matter is now pending with the board, awaiting final consideration and report.

B. & A. R. R. UNDERPASSES.

Petitions for the extensions of Water and Dwight streets under the Boston and Albany railroad location were presented to the board early in the spring of 1913 for the second time. The order passed by the City Council late in 1912, under recommendation of the board, for the above underpasses, having been regarded of doubtful value from the standpoint of validity, the board were asked to reconsider the whole matter, with a view to a permanent construction for the Water street extension rather than the temporary structure recommended in the order of 1912. Favorable reports were made for both of these underpasses, the board finding as in 1912 that public convenience and necessity would be greatly served by the carrying out of this measure, and for which the public have long and persistently appealed.

LIBERTY STREET.

The widening of Liberty street, between Chestnut street and the Chicopee line, has been under consideration by the board since the early springtime, a second petition having been referred to the board soon after the report of the board upon the first petition was recommitted by the City Council, the first report being adverse to the request of petitioners, as in the opinion of the board the ground covered was not sufficient to warrant the undertaking, as it still left a long section of the thoroughfare in present conditions too narrow for the location of double track street car accommodation.

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A new plan has been prepared covering the entire ground, which the board are now considering with a view of determining the most feasible width and location.

CAREW STREET WIDENING.

The widening of this thoroughfare, between Main and Chestnut streets, has been under consideration by the board since early springtime, as it was understood the Supervisors were contemplating the paving of this thoroughfare and it was assumed by them that along with the permanent improvement of this thoroughfare the double tracking of the street car line would be in order. Due consideration has been given to this matter by the Board of Public Works and several hearings to abutters and conferences held thereon, a favorable report having been made to the City Council early in the fall season, which after some deliberation in the latter body was recommitted to the board for reconsideration of widening to greater width. The most feasible width and location is now being considered by the board.

CONNECTICUT RIVER BOULEVARD.

A petition for this large and important project, presented to the City Council by his Honor, Mayor Denison, and others, was duly referred to the board, and a hearing upon the question of convenience and necessity appointed thereon, the hearing, when given, being attended by a large and representative gathering.

A detailed survey and plan have been prepared for the general study of the board, who are now endeavoring to determine the best location and grade prior to taking up the consideration of land damages.

Several of the above projects have been recently considered

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and discussed in a joint conference between the board and the new City Planning Commission, as it was considered that the joint action was desirable in order to secure the best solution of these large and important problems.

CITY PLANNING COMMISSION.

A response has been made to the requests of the commission for a considerable amount of plans and data from records on file in this department.

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DESCRIPTION OF EXPENDITURES FOR ENGINEERING WORK ON ACCOUNT OF THE FOLLOWING CITY DEPARTMENTS.

1913.

SALARIES.

General Engineering,	$9,943 72
Maintenance,	64 48
Paving,	776 29
Sewers,	1,732 48
Macadam,	323 96
Walks and Curbing,	759 89
Park Department,	2 37
Forestry,	20 21
Fire Department,	2 97
Street Lighting,	9 32
Police Department,	17 69
Assessors Department,	583 77
River Front,	20 39
Locust Street Extension,	5 69
Commercial High School,	9 00
Page Boulevard,	35 55
Birnie Avenue,	23 39
Abbe Avenue,	10 80
Garbage Disposal Plant,	9 31
Carew Street Widening,	3 93
Water Street Extension,	20 69
Hillman Street Extension,	2 69
Water Street Underpass,	20 02
Dwight Street Underpass,	7 16
North End Incinerator,	1 99
Connecticut River Boulevard,	127 64
	$14,535 40
Stationery and office supplies,	354 04
Tools and other equipment,	249 47
Transportation,	447 95
	$15,586 86

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STREETS MADE PUBLIC, 1913.

BY ORDER OF THE CITY COUNCIL.

Name.	Limits.	Length in ft.	Width in ft.	Date of City Council's Order.
Ashmun street,	Central st. to southerly line of Adams st.,	252	40	Sept. 9, 1913.
Atwater terrace,	Springfield st. to southerly line land of Geo. C. Fisk,	1,020	50	Feb. 11, 1913.
Avon place extension,	From easterly terminus easterly as far as street is opened,	63	62	June 24, 1913.
Biltmore street,	Dickinson st. to Trafton rd.,	1,034	50	Dec. 31, 1913.
Blake Hill,	Fort Pleasant ave. to Belmont ave.,	340	25	May 6, 1913.
Bryant street,	Belmont ave. to Sumner ave.,	902	55	Dec. 17, 1913.
Crestwood street,	Springfield st. to Rimmon ave.,	579	50	Feb. 3, 1913.
Cross street,	Main to Willow st.,	316	30	Feb. 3, 1913.
Hampden st., I. O.,	Oak to Pine st.,	566	60	Nov. 18, 1913.
Lyndale street,	Belmont ave. to Sumner ave.,	1,029	55	Dec. 17, 1912.
Moore street,	Plainfield st. to Conn. river,	791	50	Dec. 24, 1912.
North st. extension,	Liberty to Dwight st.,	387	60	Dec. 24, 1912.
Oxford street,	Riverview ter. to Forest Park ave.,	643	50	July 10, 1913.
Page boulevard,	From present terminus to line of land owned by Stevens-Duryea Auto Co.,	4,209	85–70	May 20, 1913.
Pasco st., I. O.,	B.& A.R.R. to Boston rd.,	1,787	60	Jan. 21, 1913.
Post Office alley,	Worthington to Fort st.,	76	16.5	Nov. 11, 1913.
Somerset street,	Dickinson st. to Trafton rd.,	1,113	50	Dec. 31, 1912.
Sylvan avenue,	Belmont ave. to Fountain pl.,	738	50	Sept. 9, 1913.
Trinity terrace,	Sumner ave. to Morningside Park,	686	70	Jan. 21, 1913.
Virginia street,	Dickinson st. to Trafton rd.,	955	50	Dec. 31, 1912.
Walden street,	Dickinson st. to Belmont ave.,	612	50	Sept. 16, 1913.
Wason avenue,	Plainfield st. to west line of property controlled by B. & M. R. R. Co.,	1,298	60	Sept. 16, 1913.
Water street extension,	Hampden st. northerly under and across B. & A. R. R. to junction of Cypress & Fulton streets,	975	60	Dec. 24, 1912.
Whitney place,	Water st. westerly 480′,	480	33	May 6, 1913.
Euclid avenue,	Dickinson st. easterly to estate of McFethries,	273	50	Nov. 25, 1913.

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STREETS RELOCATED AND WIDENED.

1913.

BY ORDER OF THE CITY COUNCIL.

Name.	Limits.	Length in ft.	Width in ft.	Date of City Council's Order.
Dickinson street,	Locust st. southerly,	132	...	Sept. 9, 1913.
Orange street,	Dickinson to Oakland st.,	1,621	60	Oct. 7, 1913.
Agawam street,	At junction of Pecousic ave.,	233	...	Nov. 18, 1913.
Water st. exten.,	Hampden to Railroad st.,	324	48-60	Oct. 14, 1913.
West street,	Plainfield st. westerly,	408	...	Sept. 16, 1913.
Broadway,	Worthington to Bridge st.,	247	...	Dec. 17, 1912.
Main st., I. O.,	At westerly cor. of Parker st.	14	...	Jan. 21, 1913.

STREETS DISCONTINUED.

BY ORDER OF THE CITY COUNCIL.

No Streets Discontinued—1913.

Streets made public in 1913, 21,124 feet or 4.0007 miles.
Public streets previous to 1913, ...163.029

Total length of public streets, ...167.0297 miles.

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OFFICE EMPLOYEES.

Mr. Herbert E. Flint, Principal Assistant to April 1, 1913, retired.
Mr. Edward G. Martin, Assistant in charge of Street Work.
Mr. Charles J. Hancock, Assistant in charge of Sewer Work.
Mr. Edward W. Burnett, Senior Assistant.
Mr. Charles A. L. Wright, Senior Assistant.
Mr. Ernest F. Young, Senior Assistant.

INSTRUMENT MEN.

Mr. David F. Benjamin, Mr. Irving P. Salisbury,
Mr. Roland W. Greenwood, Mr. Ernest T. Reilly,
Mr. Robert A. Palmer.

RODMEN.

Mr. Wallace C. Day, Mr. Harlan E. Field,
Mr. A. F. Christensen, Mr. Harold A. Frary,
Mr. J. Raymond Hodge, Mr. Ernest F. Goyette,
Mr. Rushworth I. Munder.
Miss Alice M. Hancock, stenographer and general office clerk.

There were also employed during a portion of the summer season, Mr. Frederick A. Keep and Mr. Albert A. Peirce.

I desire to express my appreciation for the courtesies extended and the co-operation of assistants.

Respectfully submitted,

CHAS. M. SLOCUM,

Deputy City Engineer.

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REPORT

OF

STREET DIVISION

FISCAL YEAR ENDING NOVEMBER 29, 1913.

Mr. F. H. Clark, Superintendent of Streets and Engineering, Springfield, Massachusetts.

DEAR SIR:—In compliance with your request I herewith submit the annual report of the Street Division for the fiscal year ending November 29, 1913.

Owing to the extraordinary increase of paved and macadam streets during the past year, together with the necessary additional cleaning for oiling and the exceedingly dry weather during the summer, the cost of street cleaning has exceeded the appropriation about $9,000.00. This account with that of Bridges are the only ones to overrun our original estimate.

An examination of the old toll bridge early in the spring made the fact clear that there had been an insufficient amount provided for the care of bridges; this, together with the fact that numerous bridges in the city including the Ludlow bridge, Red House Crossing bridge, and the Armory Street bridges, also needed extensive repairs, made it necessary for the department to secure an additional appropriation of $2,459.42 in the bridge account.

A statement of work done in this division and the cost of such work is made herein.

I desire to acknowledge the co-operation of the foremen and men of this division and to thank you for the courtesies extended to me by you.

Respectfully submitted,

A. H. WOODWARD,
Deputy Superintendent of Streets.

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STREET CONSTRUCTION.

PAVING.

Street.	Limits.	Materials.	L'gth in ft.	Area in sq. yds.	Direct Cost.	Indirect Cost.	Total Cost.	Cost per sq. yd.
Belmont avenue,	See Special Funds.							
Cross street,	See Special Funds.							
Eastern avenue,	State to Wilbr'm rd.,	Bitulithic,	84	340	$801 93	....	$801 93	$2 36
Locust street,	At watering trough,	Mack blocks,	....	50	239 57	$12 00	251 57	5 03
Locust street,	Main to Mill,-	Bitulithic,	826	3,153	7,648 46	....	7,648 46	2 43
Locust street,	Main to Mill (between tracks),	Bessemer brick	....	1,135	2,756 57	130 48	2,887 05	2 54
Mill street,	Locust, easterly,	Porter brick,	....	511	1,550 08	70 50	1,620 58	3 17
North Main st.,	Grove to Thomas (between rails),	Woodblocks,	3,266	16,182	53,464 67	1,357 92	54,822 59	3 39
North Main st.,	Thomas to Chicopee line,	Woodblocks,						
North Main st.,	See assessable costs.							
St. James ave.,	Between B. & A. R. R. and N. Y., N. H. & H. R. R. bridges,	Hassam,	1,945	5,593	8,966 77	....	8,966 77	1 60
St. James ave.,	See assessable costs.							

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STREET CONSTRUCTION.

PAVING.—*Continued.*

Street.	Limits.	Materials.	L'gth in ft.	Area in sq. yds.	Direct Cost.	Indirect Cost.	Total Cost.	Cost per sq. yd.
Spring street,	State to Worthington,	Bitulithic,	1,820	6,133	$14,561 27	....	$14,561 27	$2 37
Spring street,	Worthington to Lyman,	Granite blocks,	507	1,739	5,972 22	$260 39	6,232 61	3 58
State street,	Oak to Westminster,	Wood blocks,	....	4,854	16,697 76	399 99	17,097 75	3 52
State street,	Westminster to Buckingham,	Wood blocks,	360	2,520	8,668 80	266 66	8,935 46	3 55
State street,	Buckingham to Sherman,	Bitulithic,	477	5,596	13,205 62	....	13,205 62	2 36
State street,	Highland Div. to Amaron (between rails),	Wood blocks,	....	1,490	5,093 41	133 33	5,226 74	3 51
Wilbraham rd.,	Winchester to Highland Div.,	Bitulithic,	657	3,255	7,811 27	....	7,811 27	2 40
Totals,			9,942	52,551	$147,438 40	$2,631 27	$150,069 67	

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STREET CONSTRUCTION.

PAVING RECAPITULATION.*

	Length in feet.	Area in square yards.	Cost per square yard.	Cost.
Bitulithic,	3,861	18,477	$2 38	$44,028 55
Brick,	....	1,696	2 66	4,507 63
Granite Block,	2,209	6,246	3 50	21,848 83
Hassam,	1,945	9,195	1 60	14,729 97
Wood Block,	3,942	26,899	3 45	92,731 05
Totals,	11,960	62,513	....	$177,847 03

*Includes work charged to special funds and assessable costs.

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TABLE OF PAVED STREETS.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
Barnes street,		Bitulithic,	178	552	1909
Belmont avenue,	At Locust and Mill streets,	Mack blocks,	——	133	1912
Belmont avenue,	Mill to Bellevue avenue,	Granite blocks,	1,702	4,507	1913
Belmont avenue,	Mill to Bellevue avenue bet. rails,	Granite blocks,	——	2,260	1912
Belmont avenue,	Hall street westerly,	Catskill blocks,	1,362	1,211	1901
Belmont avenue,	Hall street to Oakland,	Metropolitan blocks,	1,023	914	1903
Birnie avenue,	Hooker street northerly,	Johnsonburg blocks,	145	483	1906
Bridge street,	Main to Dwight,	Rock asphalt,	688	2,525	1900
Bridge street,	Dwight to Chestnut,	Creo-resinate wood blocks, 3″ x 3½″ x 8″,	122	446	1910
		Asphalt blocks, 5″ x 12″ x 3″,	195	712	1910
Bridge street,	Main street, 493 feet westerly,	Bitulithic,	493	1,746	1905
Bridge street,	extension to Water street,	Bitulithic,	252	895	1911
Bridge street,	Water street to Old Toll bridge,	Granite blocks,	249	713	1907
Catharine street,	State to Bay,	Syracuse brick,	1,722	5,691	1900
Charles street,	Liberty to land of B. & A. R. R.,	Granite blocks,	150	376	1903
Chestnut street,	Pearl to Bridge,	Bitulithic,	201	952	1912
Chestnut street,	Worthington to Lyman,	Granite blocks,	472	1,673	1895
Chestnut street,	Lyman to B. & A. R. R.,	Granite blocks,	256	1,471	1889
Chestnut street,	B. & A. R. R. to Linden,	Granite blocks,	1,640	5,235	1892
Chestnut street,	Linden to Everett,	Creo-resinate wood blocks, 3″ x 3½″ x 6″ to 10″,	419	1,438	1909
Chestnut street,	Everett to Carew,	Granite blocks,	354	718	1893
Chestnut street,	Carew to Allendale,	Syracuse brick,	1,015	3,432	1900
Chestnut street,	Allendale to Jefferson avenue,	Bitulithic,	825	2,898	1905
Court street,	Main to Court Square avenue,	Rock asphalt,	317	1,149	1897
		Syracuse brick,	——	174	1897
		Syracuse brick,	——	128	1907

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TABLE OF PAVED STREETS.—*Continued.*

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
Court street,	Court Square avenue to Water st.,	Bitulithic,	617	2,699	1911
Court Square avenue,	Court to Elm,	Rock asphalt,	193	503	1897
		Syracuse brick,	——	330	1897
Cross street,	Main to Willow,	Wood blocks,	316	872	1913
Cypress street,	Main street westerly,	Granite blocks,	459	1,700	1904
Cypress street,	Boylston to Fulton,	Granite blocks,	216	848	1905
Dwight street,	State to Lyman,	Syracuse brick,	2,324	9,905	1896
East Court street,	Main to Market,	Rock asphalt,	117	297	1900
East Court street,	Market to Dwight,	Creo-resinate wood blocks, 3″ x 3½″ x 6″ to 10″,	372	941	1912
Eastern avenue,	State to Wilbraham road,	Bitulithic,	84	340	1913
Elm street,	Main to Court Square avenue,	Rock asphalt,	343	949	1897
		Syracuse brick,	——	330	1897
Ferry street,	Main street to foot of hill,	Bitulithic,	1,389	3,597	1910
Fort street,	Main to Water,	Granite blocks,	670	1,770	1895
Fulton street,	Cypress to Vine,	Granite blocks,	1,125	3,006	1906
Hampden street,	Main street westerly,	Bitulithic,	212	821	1904
Hampden street,	completion Main to Water,	Bitulithic,	394	1,539	1905
Harrison avenue,	Main to Dwight,	Trinidad asphalt,	586	2,247	1896
Hillman street,	Main to Dwight,	Bitulithic,	648	2,025	1906
King street,	St. Ry. turnout,	Creo-resinate wood blocks, 3″ x 3½″ x 6″ to 10″,	317	1,023	1908
Liberty street,	Main street easterly,	Bitulithic,	311	1,335	1911
Liberty street,	Chestnut to Cass,	Syracuse brick,	1,399	4,571	1900
Liberty street,	Cass to Heywood avenue,	Syracuse brick,	1,147	3,971	1901
Locust street,	At watering trough,	Mack blocks,	——	50	1913
Locust street,	Main to Mill,	Bitulithic,	826	3,153	1913

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TABLE OF PAVED STREETS.—*Continued.*

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
Locust street,	Main to Mill between tracks,	Bessemer brick,	——	1,135	1913
Lyman street,	Main to Chestnut,	Granite blocks,	1,305	4,599	1889
Lyman street,	Chestnut street, easterly,	Granite blocks,	503	2,095	1908
Lyman street,	extension easterly to Spring st.,	Granite blocks,	228	949	1909
Main street,	Locust to Marble,	Syracuse brick,	840	4,381	1897
Main street,	Marble to William,	Syracuse brick,	1,762	8,307	1896
Main street,	William to Bliss,	Creo-resinate wood blocks, 3″ x 3½″ x 6″ to 10″,	1,150	6,460	1906
Main street,	Bliss to State,	Syracuse brick,	241	1,355	1893
Main street,	State to Worthington,	Creo-resinate wood blocks, 3″ x 3½″ x 8″,	1,899	10,798	1904
Main street,	Worthington to Hampden, west side,	Creo-resinate wood blocks, 3″ x 3½″ x 8″,	382	1,183	1904
Main street,	Worthington to Hampden, east side,	Creo-resinate wood blocks, 4″ x 4″ x 8″,	——	962	1903
Main street,	Hampden to Lyman,	Creo-resinate wood blocks, 4″ x 4″ x 8″,	153	775	1903
Main street,	Lyman to Liberty,	Creo-resinate grooved wood blocks, 4″ x 4″ x 8″,	484	2,780	1903
Main street,	Liberty to Sharon, east side,	Creo-resinate wood blocks, 4″ x 4″ x 8″,	453	1,135	1903
Main street,	Liberty to Sharon, west side,	Creo-resinate wood blocks, 3″ x 3½″ x 6″ to 10″,	——	1,487	1907
Main street,	Sharon to near Franklin and Emery,	Creo-resinate wood blocks, 3″ x 3½″ x 6″ to 10″,	509	3,103	1907
Main street,	near Franklin, east side,	Syracuse brick,	36	144	1907
Main street,	Franklin to Carew, east side,	Syracuse brick,	1,302	4,605	1897

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TABLE OF PAVED STREETS.—*Continued.*

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
Main street,	Emery to Sargeant, west side,	Catskill blocks,	1,447	5,449	1901
Main street,	crossing opposite Auburn street,	Catskill and Metropolitan blocks,	——	163	1903
Maple street,	Central to High,	Bitulithic,	1,563	5,665	1904
Maple street,	High to State,	Bitulithic,	593	2,530	1905
Market street,	State to Harrison avenue,	Bitulithic,	968	1,887	1906
Mill street,	Locust, easterly,	Porter brick,	——	511	1913
North Main street,	Plainfield to Morgan,	Bitulithic,	730	4,485	1906
North Main street,	Morgan to Bancroft,	Creo-resinate wood blocks, 3″ x 3½″ x 6″ to 10″,	879	4,544	1909
North Main street,	Bancroft to Calhoun,	Creo-resinate wood blocks, 3″ x 3½″ x 6″ to 10″,	839	4,210	1910
North Main street,	Calhoun to Grove,	Creo-resinate wood blocks, 3″ x 3½″ x 6″ to 10″,	673	3,466	1911
North Main street,	Grove to Thomas,	Creo-resinate wood blocks, 3″ x 3½″ x 6″ to 10″,	691	2,536	1912
North Main street,	Grove to Thomas, between rails,	Wood blocks,	3,266	17,163	1913
North Main street,	Thomas to Chicopee line,	Wood blocks,	3,266	17,163	1913
North Main street,	at Wason avenue,	Syracuse brick,	——	196	1908
Plainfield street,	Sargeant to Fulton,	Syracuse br ck,	1,710	10,249	1902
Pynchon street,	Main to Water,	Bitulithic,	870	2,866	1911
Railroad street,	Main to Water,	Granite blocks,	516	1,539	1906
Sanford street,	Main to Market,	Rock asphalt,	102	207	1900
Sanford street,	Market to Dwight,	Creo-resinate wood blocks, 3″ x 3½″ x 6″ to 10″,	371	1,324	1912
Spring street,	State to Worthington,	Bitulithic,	1,820	6,133	1913
Spring street,	Worthington to Lyman,	Granite blocks,	507	1,739	1913

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TABLE OF PAVED STREETS.—*Continued.*

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
State street,	Main street, westerly,	Creo-resinate wood blocks, 3″ x 3½″ x 6″ to 10″,	598	2,357	1909
State street,	Main to Dwight,	Creo-resinate wood blocks, 3″ x 3½″ x 6″ to 10″,	478	2,403	1908
State street,	Dwight to City Library,	Granite blocks,	541	1,631	1890
State street,	Dwight to Chestnut (widened),	Granite blocks,	——	217	1896
State street,	Federal to Oak,	Syracuse brick,	847	4,590	1897
State street,	at Walnut,	Syracuse brick,	——	278	1908
State street,	at St. James avenue,	Syracuse brick,	——	183	1907
State street,	Oak to Buckingham,	Wood blocks,	2,147	15,158	1909 1910 1911 1913
State street,	Buckingham to Sherman,	Bitulithic,	477	5,596	1913
State street,	Sherman to Highland Div., N. Y., N. H. & H. R. R.,	Bitulithic,	820	4,352	1905
State street,	Highland Div., N. Y., N. H. & H. R. R., to Amaron street,	Creo-resinate wood blocks, 3″ x 3½″ x 6″ to 10″,	1,106	4,271	1912
State street,	Highland Div., to Amaron, bet. rails,	Wood blocks,	——	1,490	1913
St. James ave.,	Bet. B. & A. R. R. & N. Y. N. H. & H. R. R. bridges,	Wood blocks,	1,945	9,195	1913
Summer street,	Spring to near Autumn,	Granite blocks,	567	1,512	1907
Summer street,	Autumn to Kibbe avenue,	Granite blocks,	1,259	4,029	1895
Summer street,	Kibbe avenue to point 85′ west of Federal,	Granite blocks,	787	2,635	1901
Taylor street,	Main to Dwight,	Bitulithic,	770	2,580	1904
Townsley avenue,		Bitulithic,	142	214	1908

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TABLE OF PAVED STREETS—*Concluded.*

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
Vernon street,		Bitulithic,	821	2,047	1911
Walnut street,	State to Union,	Syracuse brick,	638	1,803	1899
Walnut street,	Union to Pendleton avenue,	Syracuse brick,	873	2,728	1900
Walnut street,	State to Pendleton avenue, bet. rails,	Wood blocks,	——	753	1913
Walnut street,	Pendleton avenue to Lebanon street,	Bitulithic,	1,195	3,888	1905
Walnut street,	Lebanon to Hancock,	Bitulithic,	1,005	3,334	1906
Walnut street,	at Ashley,	Bitulithic,	——	44	1911
White street,	Allen to Orange,	Syracuse brick,	1,610	2,400	1902
Wilbraham road,	Winchester to Highland Division,	Bitulithic,	657	3,255	1913
Willow street,		Creo-resinate wood blocks, 3″ x 3½″ x 6″ to 10″,	1,189	3,443	1912
Worthington street,	Main to Dwight,	Syracuse brick,	739	2,544	1896
Worthington street,	Dwight to Fairbanks place,	Syracuse brick,	1,060	3,869	1901
Worthington street,	Fairbanks place to east line of Spring,	Syracuse brick,	269	1,003	1903
Worthington street,	Main to Broadway,	Bitulithic,	404	1,418	1905
Worthington street,	Broadway to Water street,	Creo-resinate wood blocks, 3″ x 3½″ x 6″ to 10″,	299	1,061	1909
Worthington street,	at Sackett place,	Creo-resinate wood blocks, 3″ x 3½″ x 6″ to 10″,	265	886	1908
Worthington street,	Federal to Armory,	Creo-resinate wood blocks, 3″ x 3½″ x 6″ to 10″,	374	1,312	1908
Totals,			80,519	322,848	

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PAVING RECAPITULATION.

Material.	Length in feet.	Length in miles.	Area in sq. yds.	Material.	Length in feet.	Length in miles.	Area in sq. yds.
Bessemer brick,	——	——	1,135	Mack blocks,	——	——	183
Bitulithic,	19,268	3.649	72,846	Metropolitan blocks,	1,023	.194	996
Catskill blocks,	2,809	.532	6,741	Porter brick,	——	——	511
Creo-resinate wood blocks,	19,751	3.741	99,780	Rock asphalt,	1,760	.333	5,630
Granite blocks,	13,506	2.558	45,222	Syracuse brick,	19,534	3.70	77,167
Hassam,	1,945	.368	9,195	Trinidad asphalt,	586	.111	2,247
Johnsonburg blocks,	145	.027	483	Asphalt blocks,	195	.037	712
				Total,	80,522	15.250	322,848

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STREET CONSTRUCTION.

MACADAM.

BITUMINOUS.

Street.	Limits.	L'gth in ft.	Area in yards.	Direct Cost.	Indirect Cost.	Total Cost.	Cost per sq. yd.
Amaron street,	Completion of 1912,	....	....	$180 58	$18 00	$198 58	....
Ashmun street,	Central to Adams,	266	904	1,185 08	78 59	1,263 67	$1 40
Armory street,	Carew to Springfield,	4,267	14,406	11,906 42	636 22	12,542 64	87
Armory street,	Top of hill to Liberty,	386	1,272	711 09	40 00	751 09	59
Bailey square,	Included in Locust extension.						
Benton street,		1,485	5,131	3,236 34	140 00	3,376 34	66
Bryant street,		897	2,990	2,382 07	100 56	2,482 63	83
Cambridge street,		1,564	4,899	3,706 09	175 00	3,881 09	79
Chestnut street,	Montmorenci to Springfield hospital driveway,	1,462	4,604	2,058 34	109 20	2,167 54	47
Cumberland street,	Main to North, completion of 1912,	....	....	409 17	39 00	448 17	....
Daytona street,		590	1,966	1,936 04	104 00	2,040 04	1 04
Dickinson street,	"X" to Longmeadow line,	2,668	11,215	7,325 15	300 00	7,625 15	68
Dickinson street (asphaltic concrete),	Marengo Park to "X,"	3,122	16,402	17,469 58	742 02	18,211 60	1 11
Dresden street,		748	2,489	1,565 11	100 00	1,665 11	67

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STREET CONSTRUCTION.

MACADAM.

BITUMINOUS.—*Continued.*

Street.	Limits.	L'gth in ft.	Area in yards.	Direct Cost.	Indirect Cost.	Total Cost.	Cost per sq. yd.
Forest Park avenue,	Sumner to Pineywoods avenue	832	3,015	$2,162 62	$85 56	$2,248 18	$0 74
Grenada terrace,		1,095	5,820	5,049 19	228 24	5,277 43	91
Hawley street,		368	1,226	1,013 28	46 00	1,059 28	86
Kenwood terrace,		524	2,307	1,933 27	102 60	2,035 87	88
Locust st. extension,	Completion of 1912,	....	....	264 19	26 42	290 61	....
Lyndale street,		1,059	3,530	2,462 11	111 45	2,573 56	73
Manhattan street,		1,101	2,799	2,607 35	108 00	2,715 35	97
Maple court,		712	1,760	1,049 21	47 87	1,097 08	62
Maplewood terrace,	North side Ft. Pleasant ave. to Riverview terrace,	552	1,237	937 34	81 84	1,019 18	82
Massasoit street,	Prospect to end of public street, completion of 1912,	....	....	459 68	45 95	505 63	....

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STREET CONSTRUCTION.

MACADAM.

BITUMINOUS.—*Continued.*

Street.	Limits.	L'gth in ft.	Area in yards.	Direct Cost.	Indirect Cost.	Total Cost.	Cost per yard.
Montrose street,	Completion of 1912,	....	....	$58 21	$5 00	$63 21	....
Orange street,	Oakland to Allen,	2,437	8,522	7,343 22	223 86	7,567 08	$0 89
Ormond street,		365	1,222	610 45	36 95	647 40	53
Page boulevard,	End of public street, 1912, to east line S.-D. Co. property,	4,401	11,950	10,403 14	546 06	10,949 20	92
Pecousic avenue,	Gardner to York,	819	6,690	1,930 70	120 85	2,051 55	31
Pineywoods avenue,	Forest Park to Washington road,	329	1,097	800 81	42 74	843 55	77
Plainfield street,	Wason ave. to Chicopee line,	423	979	993 95	68 44	1,062 39	1 09
Union street,	Eastern ave. to Colton st.,	291	894	634 65	38 68	673 33	75
Vassar street,		495	1,685	1,365 30	92 82	1,458 12	87
Wason avenue,	B. & M. R. R. to Plainfield,	1,321	4,370	5,213 54	306 38	5,519 92	1 26

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STREET CONSTRUCTION—*Concluded.*

MACADAM.

BITUMINOUS.—*Continued.*

Street.	Limits.	L'gth in ft.	Area in yards.	Direct Cost.	Indirect Cost.	Total Cost.	Cost per yard.
West street,	Hampden Park to North End bridge,	1,073	2,287	$480 02	$47 65	$527 67	$0 23
Winchester street,		378	1,252	830 18	48 90	879 08	70
Wolcott street,		439	1,463	862 22	50 00	912 22	62
Totals,		36,469	130,383	$103,535 69	$5,094 85	$108,630 54	

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STREET CONSTRUCTION.

MACADAM.

WATER-BOUND.

Street.	Limits.	Length in ft.	Area in yards.	Direct Cost.	Indirect Cost.	Total Cost.	Cost per sq. yd.
Armory street,	Ledyard to top of hill,	610	1,874	$1,121 46	$78 00	$1,199 46	$0 64
Bailey square,	See Dickinson street,						
Dickinson street,	Bailey sq. to Marengo pk.,	761	3,733	2,267 77	116 02	2,383 79	64
Foster street,		740	2,034	764 10	43 90	808 00	Incomplete.
Greenacre sq.,		415	856	113 25	10 79	124 04	Incomplete.
Main st., I. O.,	Parker to Wilbraham line.	817	3,631	1,707 37	120 72	1,828 09	50
Pasco st., I. O.,		....	....	600 00	....	600 00	Land damages.
TOTALS,		3,343	12,128	$6,573 95	$369 43	$6,943 38	

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STREET CONSTRUCTION.

ASPHALTIC CONCRETE PLANT.

Labor Cost.	Material Cost.	Total Cost.
$4,013 66	$4,694 22	$8,707 88

ASSESSABLE COSTS.

Street.	Limits.	Material.	Area sq. yds.	Direct Cost.	Indirect Cost.	Total Cost.	Cost per sq. yd.
Colton street,	At Union street,	Bituminous mac.	150	$167 05	$8 52	$175 57	$1 10
North Main st.,	North of Wason ave. (between rails),	Wood blocks,	981	3,240 85	80 00	3,320 85	3 39
St James ave.,	Between B. & A. R. R. and N. Y., N. H. & H. R. R. bridges,	Hassam,	3,602	5,763 20	....	5,763 20	1 60
Totals,				$9,171 10	$88 52	$9,259 62	

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STREET CONSTRUCTION.

SPECIAL FUNDS.

Street.	Limits.	Materials.	L'gth in ft.	Area in sq. yds.	Direct Cost.	Indirect Cost.	Total Cost.	Cost per sq. yd.
Belmont avenue,	Mill to Bellevue ave.,	Granite block,	1,702	4,507	$15,039 31	$576 91	$15,616 22	$3 46
Birnie avenue,	Plainfield to Greenwich,	Bituminous,	1,667	5,589	5,399 23	300 00	5,699 23	1 02
Birnie avenue,	Plainfield to Arch,	Resurfacing macadam,	781	2,550	174 49	3 52	178 01	07
Birnie avenue,	Plainfield to Arch,	Completing retaining wall,	....	....	8,747 64	457 68	9,205 32	....
Cross street,	Main to Willow,	Wood blocks,	316	872	3,101 22	226 44	3,327 66	3 82
Garbage Disposal Road,		Macadam,	....	....	320 87	11 08	331 95	....
Locust street,	Extension,	Bitum. mac.	573	2,597	1,909 72	120 58	2,030 30	78
Locust street,	Extension,	Resurfacing,	2,495	7,682	1,074 71	67 87	1,142 58	15
Locust street,	Extension,	Miscellaneous,			595 53	37 64	633 17	....
Page boulevard,	(Completion of 1912 work),		....	....	6,105 71	261 98	6,367 69	....
	To end of public street, 1921,	Bitum. mac.,	3,633	9,201	9,350 15	401 16	9,751 31	1 06
Rubbish Disposal Road,			....	....	110 12	4 88	115 00	....
Water street widening,	Gardner to Whitney place,	Waterbound macadam,	....	2,262	2,067 69	66 00	2,133 69	94
TOTALS,					$54,798 32	$2,153 29	$56,951 61	

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STREET CONSTRUCTION.

MACADAM RECAPITULATION.*

	Length in ft.	Area in sq. yds.	Cost per sq. yd.	Total Cost.
Water-bound,	2,188	11,500	$0 66	$7,545 03
Water-bound (incomplete),	1,155	2,890		932 04
Bituminous,	39,270	131,518	81	106,569 15
Bituminous (completion of 1912 work),	....	....		7,873 89
Asphaltic concrete,	3,122	16,402	1 11	18,211 60
TOTALS,	45,735	162,310		$141,131 71

*Includes work charged to special funds and assessable costs.

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TABLE OF MACADAMIZED STREETS.

*Includes Macadam laid by Spgfd. Street Ry. Co.
**Macadam laid by Spgfd. Street Ry. Co.
†Macadam laid by private parties.

NAME OF STREETS.	Limits.	Length in feet.	Area in sq. yds.
Abbe ave. bridge app.,		872	2,325
Acushnet avenue,		1,088	3,385
Adams street,		1,003	3,326
†Agawam street,	Pecousic avenue to South st.,	230	383
Alden street,		2,776	*9,306
Alexander street,		414	1,380
Alfred street,		490	1,635
Allen street,	Mill street to N. E. R. R.,	4,017	*13,798
Allendale street,		663	2,094
Amaron street, bit.,		408	1,475
Amherst street,	Harvard to Monmouth,	1,233	4,069
Andrew street,	State to Dawes,	1,323	4,228
Arbor street,		437	1,222
Arch street,	Main street westerly,	410	1,366
Armory street,	Federal st. to Warwick ave.,	2,305	7,688
Armory street,	Ledyard to top of hill,	610	1,874
Armory street, bit.,	Top of hill to Liberty,	386	1,272
Armory street,	Liberty to Carew,	1,570	5,203
Armory street, bit.,	Carew to Springfield,	4,267	14,406
Ashley street,		1,378	4,592
Ashmun street, bit.,	Central to Adams,	266	904
Auburn street,		787	1,942
Autumn street,		197	504
Avon place,		644	2,538
†Avon place,		67	386
Bailey square,	See Locust street,		
Bancroft street,		1,435	4,865
Banks place,		225	536
Bay street,	St. James ave. to Cambridge street,	4,469	*14,853
Beaumont street,	Dickinson st. to Belmont ave.,	689	2,295
Beech street,		528	1,303
Beechwood street,	Sumner ave. to Spruceland st.,	501	1,670
Belmont avenue,	Bellevue ave. to Oakland st.,	1,981	4,969
Belmont avenue,	Oakland st. to Sumner ave., easterly side,		**1,905
Belmont avenue,	South side, Garfield street to Sumner avenue,	1,624	4,170
Belmont avenue, bit.,	Sumner avenue to White st.,	3,634	19,434
Benton street, bit.,		1,485	5,131
Berkeley street,		453	1,510
Berkshire street,	State to Oak, I. O.,		**31,291
Berkshire street,	Oak to Chestnut, I. O.,	1,400	6,533
Birnie avenue, bit.,	Plainfield to Greenwich,	1,667	5,589

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TABLE OF MACADAMIZED STREETS.—*Continued.*

NAME OF STREETS.	Limits.	Length in feet.	Area in sq. yds.
Birnie avenue,	Greenwich st. to Wason ave.,	3,369	8,077
Bliss street,	Main street to N. Y., N. H. & H. R. R.,	1,229	3,956
Bond street,		1,629	5,112
Bowdoin street,	St. James avenue to Ingersoll grove,	1,944	6,477
Bowles street,	Bay to McKnight,	750	2,500
Boylston street,		864	1,921
Bradford street,		862	2,935
Broad street,		959	3,177
Brookline avenue,		615	2,050
Bryant street, bit.,		897	2,990
Buckingham place,		275	916
Buckingham street,		2,006	6,678
Butler street,		1,525	2,885
Byers street,	State to Frost,	480	1,193
Carew street,	Main to point near Bartlett,	2,618	7,672
Calhoun street,		1,129	3,435
Cambridge street, bit.,		1,564	4,899
Cass street,	Liberty to Butler,	1,762	5,407
Catharine street,	Bay to Dartmouth,	150	493
Cedar street,		1,962	6,655
Central street,		4,903	12,832
Central street,	Cedar to Mill,		**2,705
†Chapin terrace,	Chestnut to Marvin,	601	3,112
Charles street, Asphaltic concrete,	Liberty to Franklin,	626	1,940
Chase avenue,		583	1,943
Cherryvale avenue,		687	2,290
Chestnut street,	State to Harrison ave.,	979	3,263
Chestnut street,	Jefferson avenue to Springfield street, west side,	1,465	1,733
Chestnut street, bit.,	Jefferson avenue, to Hospital driveway, east side,		4,604
Chestnut street, Asphaltic concrete,	Harrison avenue to Pearl st.,	281	2,630
	Bridge st. to Worthington,	441	
Chestnut street,	Allendale to Springfield,		**2,908
Church street,		832	2,553
Churchill street,		575	1,919
Clark street,		619	1,100
Clarendon street,	Bay to 200 feet north of Worthington,	1,452	4,834
Clarendon street, bit.,	extension to Dartmouth ter.,	140	1,204
Clinton street,		703	1,842
College street,		527	1,522
Colton street, bit.,		50	150

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TABLE OF MACADAMIZED STREETS.—*Continued.*

NAME OF STREETS.	Limits.	Length in feet.	Area in sq. yds.
Congress street,		1,550	3,918
Cornell street, bit.,		1,283	4,275
Cross street,	Willow to Maple,	608	1,416
Crystal avenue,		930	3,100
Cumberland st., bit.,	Main to North,	372	1,240
Cumberland street,	North to Chestnut,	426	1,420
Dale street,		812	2,051
Dartmouth street,		1,132	5,159
Dartmouth ter., bit.,		488	2,544
Daytona street, bit.,		590	1,966
Demond avenue,		859	2,863
Dickinson street,	Bailey sq. to Marengo park,	761	3,733
Dickinson street, Asphaltic concrete,	Marengo park to the "X,"	3,122	16,402
Dickinson street, bit.,	"X" to Longmeadow line,	2,668	11,215
Donald street, bit.,		444	1,480
Dorchester street,		567	1,887
Douglas street,		540	1,800
Dresden street, bit.,		748	2,489
Eagle street,		556	1,855
East Hooker street,		679	1,786
Eastern avenue,		4,516	*15,297
Edwards street,		675	2,219
Elliot street,		1,007	3,342
Elm street,	N. Y., N. H. & H. R. R. to Court Square,	818	2,089
Elmwood street,		886	2,738
Emery street,		648	2,106
Essex street,		1,606	5,143
Euclid avenue,		1,169	3,896
Everett street,		1,500	4,859
Fairfield street,		882	2,940
Farnsworth street,	Width of 20 feet,	513	1,710
Federal street,	Pearl to Worthington,	353	1,370
Firglade avenue,		1,049	3,490
Fisk avenue,		1,682	6,240
Florentine gardens,		706	3,501
Florence street,	Walnut to Pine,	1,582	5,273
Florida street,	Bay to Ingersoll grove,	2,192	6,868
Forest street,		784	2,502
Forest park ave., bit.,	Sumner ave. to Pineywoods ave.,	832	3,015
Forest Park avenue,	Sumner avenue to Forest st.,	752	3,846
Forest Park avenue,	Fort Pleasant ave. to Forest street, 22½ feet in width,	1,760	4,475
Fort Pleasant avenue,	west side,	2,794	10,138
Fort Pleasant avenue,	east side,	2,674	7,252
Foster street,		740	2,034
Franklin street,	Main in Webster,	3,613	12,386

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TABLE OF MACADAMIZED STREETS.—*Continued.*

NAME OF STREETS.	Limits.	Length in feet.	Area in sq. yds.
Franklin street,	Webster to Genesee, width of 20 feet,	1,139	3,797
Fremont street,		778	2,593
Fulton street,	Plainfield to Vine,	2,444	8,087
Gardner street,	Water to Main,	1,114	3,713
Garfield street,		1,577	5,220
Genesee street,	width of 20 feet,	276	821
George street,	Maple easterly,	110	647
Grace street,		354	885
Grant street,		577	1,603
Gray's avenue,		560	1,300
Greenacre square,		415	856
Greene street,		1,347	4,490
Greenleaf street,		740	3,098
Greenwich street,	North Main to Birnie ave.,	643	2,143
Greenwood street,		1,561	5,025
Grenada terrace, bit.,		1,095	5,820
Grove street,		612	1,734
Grosvenor street,		738	2,286
Hall street,		992	3,307
Hamburg street,	width of 20 feet,	574	1,786
Hancock street,	Clark to State,	3,989	*13,479
Harriet street,		816	2,720
Harvard street,	Yale to Cornell,	1,565	5,206
Hawley street, bit.,		368	1,226
Hawthorne street,		540	1,374
Hebron street,		698	2,204
Heywood street,	Liberty to Warwick ave.,	250	833
Hickory street,	Walnut to Sheffield st., and Alden street easterly,	4,710	11,589
High street,		2,563	5,544
Holyoke street,		776	2,001
Homer street,		582	1,940
Howard street,	N. Y., N. H. & H. R. R. to Main,	1,277	4,326
Hubbard avenue,		568	1,063
†Huntington street,		643	2,143
Ingersoll grove,	Worthington st. to Bowdoin,	1,395	4,650
Ingraham avenue,		258	462
James street,		928	2,356
Jefferson avenue,		1,275	6,375
John street,		640	2,136
Keith street,		1,107	3,690
Kenwood park,		721	3,888
Kenwood terrace, bit.,		524	2,307
Kibbe avenue,		213	710
King street,	Walnut to Highland division N. Y., N. H. & H. R. R.,	2,568	*8,484
Lafayette street,		568	1,865

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TABLE OF MACADAMIZED STREETS.—*Continued.*

NAME OF STREETS.	Limits.	Length in feet.	Area in sq. yds.
Lebanon street,		1,926	5,233
Lexington avenue,		622	1,659
Leyfred terrace,		625	2,102
Liberty street,	Main street easterly, and Wolcott to Carew,	3,497	8,285
Liberty street,	Heywood avenue to Chicopee line,		**9,920
Lillian street,		387	989
Linden street,		1,287	5,148
Litchfield street,		384	1,280
Locust street, bit.,	Belmont ave. to Dickinson st., includes Bailey square,	3,068	10,279
Lombard street,		590	1,677
Longhill street,	Sumner ave. to Warner place,	475	2,321
Longhill street,	Sumner ave. to Washington boulevard,	1,741	6,837
†Longmeadow street,	Longhill street to Longmeadow line,	2,930	7,813
Loring street,		707	2,294
Lowell street,		1,390	4,633
Lyndale street, bit.,		1,059	3,530
Madison avenue,		529	1,657
Magazine street,	Lincoln to Armory,	734	2,434
Magnolia terrace,	Sumner ave. to Pineywoods ave.,	1,141	6,209
Main street,	Mill river to Locust street,	980	5,864
Main street, I. O.,	Front to Parker,	5,563	19,691
Main street, I. O.,	Parker to Wilbraham line,	817	3,631
Main street, I. O.,	Front st. to Ludlow bridge,		**11,127
Manhattan st., bit.,		1,101	2,799
Maple court, bit.,		712	1,760
Maple street,	top of hill to George street,	1,565	4,572
Mapledell street,		972	3,239
Maplewood terrace,	south side, Fort Pleasant ave. to Forest Park avenue,	1,301	3,075
Maplewood terrace,	north side, Forest Park ave. to Riverview terrace,		1,874
Maplewood ter., bit.,	north side, Fort Pleasant ave. to Randolph,		1,237
Marble street,		1,074	3,508
Marengo park,		1,869	6,230
Margaret street,	Water to Main,	842	2,807
Mason street, bit.,		661	2,203
Massasoit street,	Carew to Prospect,	851	2,803
Massasoit street, bit.,	Prospect street to 143′ north of Montmorenci,	1,148	3,827
Massasoit street,	Chapin terrace to Pratt st.,	430	1,440
Mattoon street,		524	1,775
McKnight street,	Sherman to Bowles,	532	1,773
Medford street,	N. Main st. to Birnie ave.,	624	2,080

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TABLE OF MACADAMIZED STREETS.—*Continued.*

NAME OF STREETS.	Limits.	Length in feet.	Area in sq. yds.
Merwin street,		713	2,377
Mill street,	Main to Dickinson,	3,250	13,564
Monmouth street,		1,168	4,000
Monroe street,	Hancock to Eastern avenue,	1,345	3,736
Montmorenci street,		620	2,067
Montrose street, bit.,		973	3,242
Morgan street,		852	2,914
Morris street,		1,022	3,031
Mountainview street,		682	2,330
Mulberry street,	Maple to Union,	2,015	5,706
Murray Hill avenue,		600	2,000
Myrtle street,		484	997
North street,	Liberty to Cumberland,	5,729	19,944
Northampton avenue,	Wilbraham road to Beverly street,	1,229	4,096
Norwood street,		1,117	2,911
Oak street, Asphaltic concrete,		1,356	4,462
Oak street, I. O.,	Berkshire to Water,	1,457	5,731
Oak street, I. O.,	Berkshire to Main,		**2,078
Oakland street,	Allen to Sumner avenue,	4,153	14,808
Olive street,		478	1,248
Orange street, bit.,	Oakland to Allen,	2,437	8,522
Orchard street,		1,040	3,467
Orleans street,		1,509	4,293
Ormond street, bit.,		365	1,222
Osgood street,		890	2,948
Page boulevard, bit.,	St. James ave. to east line Stevens-Duryea Co. property,	8,034	28,636
Palmer avenue,		991	3,177
Park street,	Main to Willow and foot of hill to Maple,	865	2,545
Parkwood street,		450	1,500
Patton street,		1,631	5,438
Pearl street, Asphaltic concrete,	Chestnut to Spring,	983	2,817
Pearl street,	Spring to Byers,	237	696
Pecousic avenue,	York street to Main street,	1,456	4,044
Pecousic avenue, bit.,	Gardner to York and Main to Longhill,	4,444	17,353
Pendleton avenue,		2,582	6,545
Pine street,		4,420	14,344
Pineywoods avenue,	Washington road to Florentine gardens,	1,273	4,243
Pineywoods ave., bit.,	Forest Park ave. to Washington road,	329	1,097
Plainfield street,	B. & M. R. R. bridge to Wason avenue,	5,395	14,716
Plainfield street,	Washburn to Wason avenue,		**3,953

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TABLE OF MACADAMIZED STREETS.—*Continued.*

NAME OF STREETS.	Limits.	Length in feet.	Area in sq. yds.
Plainfield street, bit.,	Wason avenue to Chicopee line,	423	979
Pleasant street,		428	1,026
Plymouth street,		479	1,597
Portland street,	N. Main to Birnie avenue,	610	2,033
†Pratt street,	Chestnut to Marvin,	600	2,000
Princeton street,	Bay to St. James avenue,	1,509	6,329
Princeton street,	Bay to St. James avenue,		**1,496
Princeton street, bit.,	St. James ave. to Cornell st.,	267	890
Prospect street,	Massasoit to Carew,	817	2,996
Quincy street,	Oak to Eastern avenue,	2,704	7,780
Randolph street,	Sumner ave. to Forest Park ave.,	916	3,053
Reed street,		660	2,493
Ridgewood place,		537	1,193
Ringgold street,		730	2,432
Riverview street,		625	2,094
Riverview terrace,		281	721
Rowland avenue,	Plainfield street to Abbe ave. bridge approach,	690	1,674
Rutland street,		277	926
Rutledge avenue,		516	1,599
Salem street,	Mattoon to Spring,	522	1,426
Sargeant street,		860	3,126
School street,		1,415	4,597
Seventh street,		822	2,529
Sharon street,		1,200	3,895
Sheldon street,	Birnie avenue to N. Main,	651	2,027
Sherman street,	State to Clarendon,	1,623	5,394
South street,	Agawam street to Mill river,	1,863	6,878
Springfield street,	Chicopee line southwesterly,	3,700	7,400
Springfield street,	Chestnut street northeasterly,	400	1,355
Springfield street,	Chestnut to dingle, and Hamburg street to Chicopee line,		**1,242
Spruce street,		699	1,737
Spruceland avenue,		1,370	4,566
State street,	Water st. easterly, City Library to Federal, and Amaron st. to Berkshire avenue,	9,828	55,771
Stearns square,	east of park,	259	461
Stebbins street,	State to Quincy,	973	3,243
St. James avenue,	State to Highland division N. Y., N. H. & H. R. R.,	5,470	15,557
St. James avenue,	State to end of track,		**5,213
Stockbridge street,		635	1,617
Summer street,	Federal to Armory,	378	1,260
Sumner avenue,	Longhill street to Forest Park entrance,	3,219	15,227
Sumner avenue,	Park entrance to Lenox street, southerly side,	1,700	3,820

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TABLE OF MACADAMIZED STREETS.—*Continued.*

NAME OF STREETS.	Limits.	Length in feet.	Area in sq. yds.
Sumner avenue, bit.,	Park entrance to Lenox street, northerly side,	1,700	4,236
Sumner avenue, Asphaltic concrete,	Lenox st. to 90′ west of Ventura,	484	5,626
Sumner avenue, bit.,	90′ west of Ventura to White street,	2,090	13,460
Sumner avenue,	Longhill to Lenox street,		**9,489
Taylor street,		413	1,310
Temple street,		953	2,570
Tenth street,		1,577	4,451
Terrence street,		714	2,380
Thomas street,		583	1,945
Thompson street,		2,093	6,606
Tyler street,	Oak to Hancock,	1,346	4,002
Union street,	N. Y., N. H. & H. R. R. to ft. of hill, Maple to Eastern ave.,	7,440	25,077
Union street, bit.,	Eastern avenue to Colton,	291	894
Vassar street, bit.,		495	1,685
Vine street,		745	1,892
Vinton street,		612	2,465
Walnut street,	Mill to Hancock,	1,457	*2,341
Walter street, bit.,		390	1,300
Waltham avenue,		985	2,628
Warner place,		691	2,152
Warriner avenue,		450	1,601
Warwick street,	Heywood street easterly,	811	2,703
Washburn street,		1,400	4,667
Washington road,	Maplewood terrace to Pineywoods avenue,	1,083	3,610
Wason avenue,	B. & M. R. R. to N. Main st.,	505	1,718
Wason avenue,	B. & M. R. R. to N. Main st.,		**449
Wason avenue, bit.,	B. & M. R. R. to Plainfield st.,	1,321	4,370
Water street, bit.,	R. R. to Whitney place,	4,420	14,733
Water street,	Whitney place to Gardner st.,	725	4,054
Waverly street,		850	2,910
Webster street,		606	2,020
Wellesley street, bit.,		444	1,480
West street,		122	1,585
West street, Asphaltic concrete,	Hampden park to N. End bridge,	1,073	2,287
Westernview street,		650	2,167
Westford avenue,		1,380	6,133
Westminster street,		1,911	6,388
White street,	Allen to Longmeadow line,	8,288	19,446
White street,	Orange to Sumner avenue, and Belmont avenue to Longmeadow line,		**3,774
Wight place,		388	692

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TABLE OF MACADAMIZED STREETS.—*Concluded.*

NAME OF STREETS.	Limits.	Length in feet.	Area in sq. yds.
Wilbraham avenue,		2,046	6,820
Wilbraham road,	Highland Div. to Homer st.,	1,844	7,557
Wilbraham road,	southerly side, Homer to Benton,	2,600	5,142
Wilbraham road,	Westford avenue to point 660 ft. east of Benton street,		**3,682
Wilcox street,	Main to 385 ft. westerly from Water,	1,307	4,000
William street,	N. Y., N. H. & H. R. R. to Main,	1,368	4,359
Winchester street, bit.,		378	1,252
Winthrop street,		659	2,397
Wolcott street, bit.,		439	1,463
Woodside terrace,	Belmont ave. to Forest Park ave.,	463	1,543
Woodside terrace,	Belmont avenue easterly,	474	1,580
Worcester street, I. O.,	Pine to Fiberloid Co.'s driveway, 18 ft. in width,	4,994	10,988
Worthington street,	Spring street easterly,	1,259	4,197
Worthington street,	Sackett's pl. to Federal st.,	1,121	2,861
Worthington street,	Armory st. to St. James ave.,	2,514	7,961
Yale street,	Dartmouth to Monmouth,	1,493	5,142
York street,		1,000	2,997
Total	81.698 miles.	431,374	1,528,209

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MACADAM RECAPITULATION.

	Length in feet.	Length in miles.	Area in square yards.
Asphaltic concrete,	8,366	1.584	34,256
Bituminous macadam,	61,165	11.584	240,184
Water-bound macadam,	361,843	68.53	1,253,769
Totals,	431,374	81.698	1,528,209

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STREET CONSTRUCTION.

GRADING AND GRAVELING, NEW AND REPAIRS.

Street.	Limits.	L'gth in ft.	Area in yards.	Direct Cost.	Indirect Cost.	Total Cost.	Cost per yard.
Bristol street,	Marlborough st. southerly,	600	2,000	$327 62	$32 37	$359 99	....
*Carew street,	Liberty to Chicopee road,	1,500	7,666	298 93	15 00	313 93	....
Ranney street,	Johnson to Kensington ave.,	600	2,000	73 81	7 38	81 19	....
Revere street,		1,300	4,333	174 51	17 45	191 96	....
St. James avenue,	Page blvd. to Chicopee line,	6,590	29,289	430 66	20 00	450 60	....
Totals,		10,590	45,288	$1,305 53	$92 20	$1,397 73	....

*Old gravel taken from new macadam streets used in this work.

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STREET MAINTENANCE.

RESURFACING.

Street.	Limits.	L'gth in ft.	Area in yds.	Direct Cost.	Indirect Cost.	Total Cost.	Cost per sq. yd.
Abbe avenue,	Approaches to bridge,	835	2,227	$111 46	$8 61	$120 07	$0 05
Carew street hill,	Prospect street to top of hill,	1,776	4,726	702 02	64 15	766 17	16
Chestnut street hill,	State street, northerly,	345	1,150	106 62	5 91	112 53	10
Eastern avenue,	King to Granville,	235	783	236 12	12 80	248 92	32
Liberty street,	Heywood to Carew,	4,200	13,883	513 45	35 32	548 77	04
North street,	Ferry to Franklin,	603	3,082	703 89	33 14	737 03	24
Page boulevard,	St. James ave. to end of public street as accepted, 1912,	3,634	8,441	310 44	21 92	332 36	04
Pearl street,	Spring to Byers,	257	857	153 43	7 67	161 10	19
Pecousic avenue,	Gardner to York,	819	6,690	1,259 21	83 35	1,342 56	20
Plainfield street,	North of bridge,	600	2,000	338 06	20 24	358 30	18
Plainfield street,	Brick paving to the bridge,	55	330	177 09	10 48	187 57	57
State street,	Amaron to Pine Point,	6,810	23,835	657 96	63 11	721 07	03
State street,	Library to Walnut,	2,743	18,448	2,498 88	132 40	2,631 28	14

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STREET CONSTRUCTION.

GRADING AND GRAVELING, NEW AND REPAIRS.

Street.	Limits.	L'gth in ft.	Area in yards.	Direct Cost.	Indirect Cost.	Total Cost.	Cost per yard.
Bristol street,	Marlborough st. southerly,	600	2,000	$327 62	$32 37	$359 99	....
*Carew street,	Liberty to Chicopee road,	1,500	7,666	298 93	15 00	313 93	....
Ranney street,	Johnson to Kensington ave.,	600	2,000	73 81	7 38	81 19	....
Revere street,		1,300	4,333	174 51	17 45	191 96	....
St. James avenue,	Page blvd. to Chicopee line,	6,590	29,289	430 66	20 00	450 60	....
Totals,		10,590	45,288	$1,305 53	$92 20	$1,397 73	....

*Old gravel taken from new macadam streets used in this work.

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STREET MAINTENANCE.

RESURFACING.

Street.	Limits.	L'gth in ft.	Area in yds.	Direct Cost.	Indirect Cost.	Total Cost.	Cost per sq. yd.
Abbe avenue,	Approaches to bridge,	835	2,227	$111 46	$8 61	$120 07	$0 05
Carew street hill,	Prospect street to top of hill,	1,776	4,726	702 02	64 15	766 17	16
Chestnut street hill,	State street, northerly,	345	1,150	106 62	5 91	112 53	10
Eastern avenue,	King to Granville,	235	783	236 12	12 80	248 92	32
Liberty street,	Heywood to Carew,	4,200	13,883	513 45	35 32	548 77	04
North street,	Ferry to Franklin,	603	3,082	703 89	33 14	737 03	24
Page boulevard,	St. James ave. to end of public street as accepted, 1912,	3,634	8,441	310 44	21 92	332 36	04
Pearl street,	Spring to Byers,	257	857	153 43	7 67	161 10	19
Pecousic avenue,	Gardner to York,	819	6,690	1,259 21	83 35	1,342 56	20
Plainfield street,	North of bridge,	600	2,000	338 06	20 24	358 30	18
Plainfield street,	Brick paving to the bridge,	55	330	177 09	10 48	187 57	57
State street,	Amaron to Pine Point,	6,810	23,835	657 96	63 11	721 07	03
State street,	Library to Walnut,	2,743	18,448	2,498 88	132 40	2,631 28	14

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STREET MAINTENANCE.

RESURFACING.—*Continued.*

Street.	Limits.	Direct Cost.	Indirect Cost.	Total Cost.	L'gth in ft.	Area in yds.	Cost per sq. yd.
Water street,	Railroad st. to Whitney place,	$4,825 21	$187 55	$5,012 76	4,420	14,733	$0 34
*West street,	Hampden Park to North End bridge,	3,362 27	113 28	3,475 55	1,073	2,287	1 52
West street,	Foot of hill to Dry bridge,	164 27	12 82	177 09	342	2,128	08
Worthington street,	Spring to St. James avenue,	547 66	36 99	584 65	5,555	18,517	03
*"X,"	Sumner and Belmont ave. intersection,	7,501 42	201 09	7,702 51	489	5,626	1 37
Totals,		$24,169 46	$1,050 83	$25,220 29	34,791	129,743	

*Asphaltic Concrete.

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STREET MAINTENANCE.

REPAIRS.

Street.	Gravel.	Macadam.	Paving.	Miscellaneous.	Total Cost.
Albany street,	.....	.....	.....	$693 40	$693 40
Allen street,	$515 10	.....	.....	.....	515 10
Amaron street,	.....	.....	.....	8 30	8 30
Armory street,	120 46	$5 95	.....	110 03	236 44
Atwater terrace,	107 68	.....	.....	.....	107 68
Bay road,	135 50	.....	.....	15 50	151 00
Bay street,	140 62	4 22	.....	.....	144 84
Belmont avenue,	.....	156 28	.....	6 59	162 87
Belmont place,	19 80	.....	.....	.....	19 80
Berkshire avenue,	598 48	55 12	.....	105 84	759 44
Birchem Bend,	177 97	.....	.....	24 04	202 01
Bowdoin street,	.....	20 15	.....	.....	20 15
Boston road,	3,005 39	.....	.....	.....	3,005 39
Bridge street,	.....	.....	$106 75	.....	106 75
Broadway,	.....	122 46	.....	.....	122 46
Burr street,	20 96	.....	.....	.....	20 96
Cambridge street,	8 10	.....	.....	.....	8 10
Carew street,	311 31	.....	.....	38 20	349 51
Cass street,	.....	6 88	.....	.....	6 88
Catharine street,	.....	.....	62 09	.....	62 09
Center street, I. O.,	57 06	.....	.....	.....	57 06
Central street,	.....	109 58	.....	.....	109 58
Cherry lane,	57 65	.....	.....	.....	57 65
Chestnut street,	.....	34 32	381 00	.....	415 32
Chestnut st., I. O.,	12 14	.....	.....	.....	12 14
Clifford street,	5 50	.....	.....	.....	5 50
Clinton street,	.....	.....	139 99	.....	139 99
College avenue,	5 50	.....	.....	.....	5 50
Colton street,	128 35	.....	.....	.....	128 35
Court Square avenue,	.....	.....	15 11	.....	15 11
Cumberland street,	.....	54 85	...	.....	54 85
Cypress street,	.....	.....	.....	9 23	9 23
Dexter street,	19 26	.....	.....	.....	19 26
Donald street,	.....	.....	.....	4 10	4 10
Dwight street,	.....	.....	210 19	.....	210 19
East Liberty street,	.....	.....	73 20	.....	73 20
Edward street,	.....	3 61	.....	.....	3 61
Elm street,	.....	155 46	.....	17 19	172 65
Essex street, I. O.,	6 51	.....	.....	.....	6 51
Fiberloid street, I. O.,	15 69	.....	.....	.....	15 69
Florence street,	13 76	.....	.....	.....	13 76
Forest Park avenue,	30 71	108 42	.....	.....	139 13
Fort street,	.....	.....	37 58	.....	37 58
Foster street,	17 06	.....	.....	.....	17 06
Fulton street,	.....	.....	.....	2 56	2 56
George street,	8 25	.....	.....	.....	8 25
Girard avenue,	13 88	.....	.....	.....	13 88

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STREET MAINTENANCE.

REPAIRS.—*Continued.*

Street.	Gravel.	Macadam.	Paving.	Miscellaneous.	Total Cost.
Green street,	.....	$43 65	.....	.....	$43 65
Greenacre square,	$43 70	.....	.....	.....	43 70
Hampden street,	.....	.....	$648 74	.....	648 74
Hampden street, I. O.,	17 04	.....	.....	$1 89	18 93
Hampshire st., I. O.,	18 42	.....	.....	.....	18 42
Hancock street,	19 26	.....	.....	.....	19 26
Harvey street,	.....	.....	.....	4 24	4 24
Hickory street,	265 60	36 24	.....	.....	301 84
High street,	.....	.....	.....	12 14	12 14
Hillman street,	.....	.....	59 44	.....	59 44
Holly street,	104 95	.....	.....	.....	104 95
Holly street, I. O.,	34 30	.....	.....	.....	34 30
Ingersoll Grove,	.....	23 75	.....	.....	23 75
King street,	22 01	.....	.....	.....	22 01
Knox street,	11 00	.....	.....	.....	11 00
Ledyard street,	.....	55 72	.....	.....	55 72
Liberty street,	231 08	7 76	93 45	2 36	334 65
Longhill street,	2 07	.....	.....	.....	2 07
Lowell street,	.....	71 89	.....	.....	71 89
Lyman street,	.....	.....	27 52	.....	27 52
Main street,	.....	.....	214 31	.....	214 31
Main street, I. O.,	12 13	510 36	.....	10 10	532 59
Manhattan street,	5 50	.....	.....	.....	5 50
Maple street,	.....	34 79	.....	.....	34 79
Marion street,	22 26	.....	.....	.....	22 26
Market street,	.....	.....	18 18	.....	18 18
Massachusetts ave.,	14 62	.....	.....	.....	14 62
Massasoit street,	.....	170 18	.....	.....	170 18
Maynard street,	28 96	.....	.....	.....	28 96
Mill street,	.....	.....	.....	1 28	1 28
Montrose street,	50 40	.....	.....	43 06	93 46
Myrtle street, I. O.,	25 33	.....	.....	10 11	35 44
Northampton avenue,	7 12	.....	.....	.....	7 12
North street,	.....	35 90	.....	.....	35 90
North Main street,	.....	.....	390 89	8 57	399 46
Oak street, I. O.,	124 17	110 38	.....	16 01	250 56
Orange street,	34 24	.....	.....	.....	34 24
Orchard street,	3 41	65 08	.....	.....	68 49
Ozark street,	16 89	.....	.....	.....	16 89
Page boulevard,	.....	1,750 26	.....	16 26	1,766 52
Park street,	.....	69 04	.....	.....	69 04
Parker street, I. O.,	1,861 25	.....	.....	.....	1,861 25
Pasco road, I. O.,	4 43	.....	.....	4 17	8 60
Pasco street, I. O.,	6 36	.....	.....	9 24	15 60
Pearl street,	.....	.....	.....	97 32	97 32
Pecousic avenue,	.....	1,099 14	.....	.....	1,099 14

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STREET MAINTENANCE.

REPAIRS.—*Concluded.*

Street.	Gravel.	Macadam.	Paving.	Miscellaneous.	Total Cost.
Pineywoods avenue,	.....	.....	.....	$40 56	$40 56
Plainfield street,	$20 99	.....	$8 55	.....	29 54
Plumtree road,	77 07	.....	.....	11 30	88 37
Prospect street,	.....	.....	.....	2 36	2 36
Pynchon street,	.....	.....	2 65	.....	2 65
Queen street,	52 27	.....	.....	.....	52 27
Railroad street,	.....	$1 77	6 13	.....	7 90
Sherman street,	11 00	.....	.....	.....	11 00
Sherman road,	210 96	.....	.....	.....	210 96
Sixteen Acres road,	120 10	.....	.....	141 57	261 67
Springfield street,	.....	370 39	.....	.....	370 39
State street,	.....	.....	68 50	6 71	75 21
St. James avenue,	221 39	.....	.....	13 67	235 06
Sumner avenue,	389 22	.....	58 89	39 35	487 46
Sumner terrace,	14 55	.....	.....	.....	14 55
Sundry streets,	2,798 84	11,347 40	.....	3,529 50	17,675 74
Taylor street,	.....	.....	282 29	.....	282 29
Tinkham road,	60 18	.....	.....	4 98	65 16
Trafton road,	710 49	.....	.....	.....	710 49
Union street,	.....	92 57	.....	.....	92 57
Vernon street,	.....	.....	1 60	.....	1 60
Warner place,	.....	59	.....	.....	59
Walnut street,	.....	528 31	1,810 30	.....	2,338 61
Water street,	.....	97 88	.....	5 39	103 27
Webster street,	.....	28 26	.....	.....	28 26
Wellington street,	34 17	.....	.....	.....	34 17
West street,	.....	496 07	.....	44 60	540 67
Westford avenue,	13 15	.....	.....	.....	13 15
White street,	703 57	.....	5 67	87	710 11
Wilbraham road,	1,006 05	.....	.....	79 88	1,085 93
William street,	37 92	.....	.....	.....	37 92
Willow street,	.....	.....	32 87	.....	32 87
Worcester avenue,	27 68	.....	.....	.....	27 68
Worcester st., I. O.,	118 95	167 56	.....	13 97	300 48
Worthington street,	.....	73 89	413 07	5 61	492 57
TOTALS,	$15,167 74	$18,126 13	$5,168 96	$5,212 05	$43,674 88

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GENERAL REPAIRS.

ASSESSABLE COST.

Street.	Gravel.	Macadam.	Paving.	Miscellaneous.	Total Cost.
Acushnet avenue,	.....	$3 18	.....	.....	$3 18
Alden street,	.....	3 18	.....	.....	3 18
Allen street,	.....	111 41	.....	.....	111 41
Amherst street,	.....	3 14	.....	.....	3 14
Andrew street,	.....	10 63	.....	.....	10 63
Arbor street,	.....	35 03	.....	.....	35 03
Arlington court,	.....	.....	$2 60	.....	2 60
Armory street,	.....	9 23	.....	.....	9 23
Ashley street,	.....	17 42	.....	.....	17 42
Auburn street,	.....	8 56	.....	.....	8 56
Bancroft street,	.....	13 68	.....	.....	13 68
Barnes street,	.....	.....	43 38	.....	43 38
Bay street,	.....	27 77	.....	.....	27 77
Beacon street,	$3 19	.....	.....	.....	3 19
Beaumont street,	.....	4 59	.....	.....	4 59
Beechwood street,	.....	6 97	.....	.....	6 97
Belmont avenue,	.....	379 06	25 99	.....	405 05
Berkeley street,	.....	16 38	.....	.....	16 38
Berkshire st., I. O.,	.....	18 62	.....	.....	18 62
Birnie avenue,	.....	5 14	.....	.....	5 14
Birnie ave. extension,	.....	52 69	.....	.....	52 69
Bliss street,	.....	5 03	.....	.....	5 03
Bowdoin street,	.....	13 73	.....	.....	13 73
Bowles street,	.....	13 01	.....	.....	13 01
Bradford street,	.....	2 52	.....	.....	2 52
Bridge street,	.....	.....	101 99	.....	101 99
Brown street,	2 36	.....	.....	.....	2 36
Buckingham street,	4 54	5 71	.....	.....	10 25
Butler street,	.....	36 17	.....	.....	36 17
Calhoun street,	.....	53 02	.....	.....	53 02
Catharine street,	.....	16 20	15 38	.....	31 58
Cambridge street,	.....	18 30	.....	.....	18 30
Carew street,	.....	28 47	.....	.....	28 47
Cass street,	.....	16 30	.....	.....	16 30
Cedar street,	.....	5 48	.....	.....	5 48
Central street,	.....	12 88	.....	.....	12 88
Chase avenue,	.....	6 05	.....	.....	6 05
Cross street,	.....	2 53	.....	.....	2 53
Chestnut street,	.....	68 36	238 14	.....	306 50
Cypress street,	.....	.....	4 53	.....	4 53
Churchill street,	.....	7 11	.....	.....	7 11
Clark street,	.....	3 09	.....	.....	3 09
Clarendon street,	.....	4 64	.....	.....	4 64
Colton street,	12 78	5 48	.....	.....	18 26
Congress street,	.....	4 89	.....	.....	4 89
Clinton street,	.....	77 72	.....	.....	77 72

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GENERAL REPAIRS.

ASSESSABLE COST.—*Continued.*

Street.	Gravel.	Macadam.	Paving.	Miscellaneous.	Total Cost.
Cornell street,	.....	$61 63	.....	.....	$61 63
Crossett avenue,	$15 92	.....	.....	.....	15 92
Crystal avenue,	.....	5 32	.....	.....	5 32
Court street,	.....	.....	$390 14	.....	390 14
Dorn street,	.....	21 32	.....	.....	21 32
Dorchester street,	.....	4 05	.....	.....	4 05
Dwight street,	.....	40 26	29 58	.....	69 84
Dartmouth street,	.....	3 00	.....	.....	3 00
Demond avenue,	.....	8 59	.....	.....	8 59
Eagle street,	.....	85 17	.....	.....	85 17
East Alvord street,	11 49	.....	.....	.....	11 49
Eastern avenue,	.....	209 14	.....	.....	209 14
Eleanor road,	16 24	.....	.....	.....	16 24
Elm street,	.....	.....	31 88	.....	31 88
Elmwood street,	.....	2 44	.....	.....	2 44
Elliot street,	.....	3 92	.....	.....	3 92
Emery street,	.....	4 01	.....	.....	4 01
Euclid avenue,	.....	18 66	.....	.....	18 66
Everett street,	.....	8 50	.....	.....	8 50
Ferry street,	.....	.....	22 97	.....	22 97
Firglade avenue,	.....	42 19	.....	.....	42 19
Florence street,	.....	16 31	.....	.....	16 31
Florida street,	.....	11 41	.....	.....	11 41
Foster street,	11 49	.....	.....	.....	11 49
Federal street,	.....	32 58	.....	.....	32 58
Franklin street,	235 86	165 43	.....	.....	401 29
Fort Pleasant avenue,	15 08	21 07	.....	.....	36 15
Forest Park avenue,	16 21	1 85	.....	.....	18 06
Fulton street,	.....	.....	71 53	.....	71 53
Gardner street,	.....	3 00	.....	.....	3 00
Grace street,	.....	1 97	.....	.....	1 97
Greenwood street,	.....	4 55	.....	.....	4 55
Greenleaf street,	.....	6 97	.....	.....	6 97
Greenwich street,	.....	18 67	.....	.....	18 67
Garfield street,	.....	2 54	.....	.....	2 54
Hall street,	.....	10 82	.....	.....	10 82
Hampden street,	.....	.....	10 63	.....	10 63
Harriet street,	.....	109 85	.....	.....	109 85
Hancock street,	.....	735 47	.....	.....	735 47
Harrison avenue,	.....	.....	4 73	.....	4 73
High street,	.....	13 09	.....	.....	13 09
Harvard street,	.....	4 91	.....	.....	4 91
Hillman street,	.....	.....	24 46	.....	24 46
Howard street,	.....	3 10	.....	.....	3 10
Holyoke street,	.....	2 11	.....	.....	2 11
Hubbard avenue,	.....	62 29	.....	.....	62 29

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GENERAL REPAIRS.

ASSESSABLE COST.—*Continued.*

Street.	Gravel.	Macadam.	Paving.	Miscellaneous.	Total Cost.
James street,	.....	$5 56	.....	.....	$5 56
Jefferson avenue,	.....	15 74	.....	.....	15 74
John street,	.....	6 19	.....	.....	6 19
Keith street,	.....	3 01	.....	.....	3 01
Kensington avenue,	$223 71	.....	.....	.....	223 71
Kenwood park,	.....	7 08	.....	.....	7 08
King street,	.....	69 58	.....	.....	69 58
Lafayette street,	.....	11 76	.....	.....	11 76
Larkspur street,	6 69	.....	.....	.....	6 69
Lebanon street,	.....	25 14	.....	.....	25 14
Lexington street,	.....	3 86	.....	.....	3 86
Liberty street,	.....	107 19	$107 19	.....	214 38
Linden street,	.....	8 62	.....	.....	8 62
Long Hill street,	.....	78	.....	.....	78
Locust st. extension,	.....	172 68	.....	.....	172 68
Lowell street,	.....	14 81	.....	.....	14 81
Lyman street,	.....	.....	371 04	.....	371 04
Marlboro street,	3 50	.....	.....	.....	3 50
Madison avenue,	.....	2 22	.....	.....	2 22
Marb e street,	.....	1 84	.....	.....	1 84
Magazine street,	.....	5 81	.....	.....	5 81
Mapledell street,	.....	2 48	.....	.....	2 48
Magnolia terrace,	.....	50 75	.....	.....	50 75
Maple street,	.....	.....	3 70	.....	3 70
Main street,	.....	101 49	652 48	.....	753 97
Myrtle street, I. O.,	4 19	.....	.....	.....	4 19
Market street,	.....	.....	3 99	.....	3 99
Marion street,	.....	4 04	.....	.....	4 04
Massasoit street,	.....	115 21	.....	.....	115 21
Margaret street,	.....	3 10	.....	.....	3 10
Mill street,	.....	11 13	.....	.....	11 13
Marengo park,	.....	2 53	.....	.....	2 53
Monroe street,	.....	3 35	.....	.....	3 35
McKnight street,	.....	3 50	.....	.....	3 50
Morgan street,	.....	4 53	.....	.....	4 53
Monmouth street,	.....	5 24	.....	.....	5 24
Mulberry street,	.....	8 65	.....	.....	8 65
Montrose street,	.....	2 93	.....	.....	2 93
North street,	.....	601 50	.....	.....	601 50
Norwood street,	.....	5 96	.....	.....	5 96
North Main street,	.....	247 70	202 53	.....	450 23
Northampton avenue,	.....	3 33	.....	.....	3 33
Oak street,	.....	12 86	.....	.....	12 86
Orchard street,	.....	75 71	.....	.....	75 71
Oakland street,	.....	9 98	.....	.....	9 98
Olive street,	.....	2 78	.....	.....	2 78

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GENERAL REPAIRS.

ASSESSABLE COST.—*Continued.*

Street.	Gravel.	Macadam.	Paving.	Miscellaneous.	Total Cost.
Orleans street,	.....	$8 88	.....	.....	$8 88
Osgood street,	.....	44 02	.....	.....	44 02
Page boulevard,	.....	480 38	.....	.....	480 38
Park street,	.....	15 53	.....	.....	15 53
Parkwood street,	.....	4 60	.....	.....	4 60
Palmer avenue,	.....	8 95	.....	.....	8 95
Pasadena avenue,	$19 14	.....	.....	.....	19 14
Pearl street,	.....	2 39	$1 97	.....	4 36
Pecousic avenue,	.....	50 97	.....	.....	50 97
Pendleton avenue,	.....	5 30	.....	.....	5 30
Plainfield street,	.....	217 44	222 51	.....	439 95
Pleasant street,	.....	12 99	.....	.....	12 99
Plymouth street,	.....	4 06	.....	.....	4 06
Princeton street,	.....	20 92	.....	.....	20 92
Prospect street,	.....	25 62	.....	.....	25 62
Pynchon street,	.....	.....	3 08	.....	3 08
Quincy street,	.....	9 32	.....	.....	9 32
Queen street,	.....	2 69	.....	.....	2 69
Railroad street,	.....	.....	11 51	.....	11 51
Randolph street,	.....	42 18	.....	.....	42 18
Reed street,	.....	18 47	.....	.....	18 47
Riverview street,	.....	1 85	.....	.....	1 85
Ringgold street,	.....	3 51	.....	.....	3 51
Riverview terrace,	.....	8 12	.....	.....	8 12
Sanford street,	.....	.....	23 93	.....	23 93
Sargeant street,	.....	15 61	.....	.....	15 61
Sharon street,	.....	87 93	.....	.....	87 93
Sherman street,	.....	4 01	.....	.....	4 01
South Main street,	.....	.....	12 73	.....	12 73
Spring street,	.....	.....	4 85	.....	4 85
Springfield street,	.....	196 88	.....	.....	196 88
State street,	.....	50 55	354 16	.....	404 71
St. James avenue,	.....	40 46	.....	.....	40 46
Summer street,	.....	68 14	5 56	.....	73 70
Sumner avenue,	.....	331 01	399 68	.....	730 69
Sundry streets,	63 00	187 70	.....	$17 53	268 23
Taylor street,	.....	.....	16 94	.....	16 94
Temple street,	.....	6 45	.....	.....	6 45
Tenth street,	.....	2 11	.....	.....	2 11
Thomas street,	.....	20 84	.....	.....	20 84
Thompson street,	.....	6 32	.....	.....	6 32
Trillium street,	6 83	.....	.....	.....	6 83
Tyler street,	.....	3 55	.....	.....	3 55
Union street,	.....	159 26	.....	.....	159 26
Vassar street,	.....	18 77	.....	.....	18 77
Vernon street,	.....	.....	14 69	.....	14 69

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GENERAL REPAIRS.

ASSESSABLE COST.—*Continued.*

Street.	Gravel.	Mac-adam.	Paving.	Miscel-laneous.	Total Cost.
Vinton street,	.....	$12 06	.....	.....	$12 06
Walnut street,	.....	.....	$925 58	.....	925 58
Washburn street,	.....	8 11	.....	.....	8 11
Washington road,	.....	3 02	.....	.....	3 02
Warner street,	.....	11 98	.....	.....	11 98
Water street,	.....	11 58	.....	.....	11 58
Webster street,	.....	5 16	.....	.....	5 16
Warriner avenue,	.....	2 46	.....	.....	2 46
West Alvord street,	$22 98	.....	.....	.....	22 98
Westford avenue,	.....	11 75	.....	.....	11 75
Westminster street,	.....	41 08	.....	.....	41 08
White street,	.....	281 34	.....	.....	281 34
Willow street,	.....	.....	22 37	.....	22 37
Wilbraham avenue,	.....	6 68	.....	.....	6 68
Wilbraham road,	.....	87 15	.....	.....	87 15
William street,	.....	3 26	.....	.....	3 26
Winthrop street,	.....	30 45	.....	.....	30 45
Worcester st., I. O.,	.....	4 86	.....	.....	4 86
Worcester avenue,	2 86	.....	.....	.....	2 86
Worthington street,	.....	29 96	606 09	.....	636 05
"X,"	.....	15 13	.....	.....	15 13
Yale street,	.....	12 52	.....	.....	12 52
York street,	.....	9 90	.....	.....	9 90
Use of Equipment,	.....	.....	.....	$13 62	13 62
TOTALS,	$631 54	$5,790 03	$4,100 90	$31 15	$10,553 62

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STREET CLEANING.

Functions.	Direct Expense.	Indirect Expense.	Totals.
Gutters,	$69 02	$6 90	$75 92
Squeegee,	5,070 53	507 05	5,577 58
Leaves,	226 55	22 66	249 21
Machine,	477 23	47 72	524 95
Patrol,	9,060 49	906 05	9,966 54
Macadam,	10,878 10	1,087 81	11,965 91
Crosswalks,	2,390 53	239 05	2,629 58
Gravel,	485 85	48 59	534 44
Wellholes,	265 79	26 58	292 37
Catch-basins,	84 53	8 45	92 98
Totals from July 21, to December 1, 1913:	$29,008 62	$2,900 86	$31,909 48
Totals previous to July 21, 1913:	$41,832 30	$4,183 23	$46,015 53
Totals for year 1913:	$70,840 92	$7,084 09	$77,925 01

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STREET SPRINKLING.

	Direct Expense.	Indirect Expense.	Total.
	$18,052 15	$1,805 22	$19,857 37

OILING.

	Direct Expense.	Indirect Expense.	Total.
	$8,982 51	$77 87	$9,060 38

STABLES AND YARDS.

	Direct Expense.	Indirect Expense.	Totals.
Equipment and	$21,092 43	$2,110 79	$23,203 22
Repairs,	40,923 66	....	40,923 66
Supplies on hand,	9,331 28	....	9,331 28
Totals,	$71,347 37	$2,110 79	$73,458 16

MACHINE SHOP.

	Direct Expense.	Indirect Expense.	Total.
	$10,575 44	$300 00	$10,875 44

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SIDEWALKS AND CURBING.

CONSTRUCTION AND RECONSTRUCTION.

BY ORDERS OF THE CITY COUNCIL.

Street.	L'gth in ft.	Sidewalks.		Curbing. Length in ft.		Order Approved.
		Material.	Description.	4″	6″	
Abbe avenue,	....			888	....	Oct. 22, 1912.
Alfred street,	....			952	....	Nov. 29, 1911.
Ashmun street,	....			....	261	Nov. 11, 1913.
Belmont avenue,	1634	Cement Concrete,	Relaid,	....	....	June 24, 1913.
Belmont avenue,	486	Brick,	Relaid,	....	....	June 24, 1913.
Belmont place,	100	Cement Concrete,	Relaid,	....	....	Sept. 9, 1913.
Bristol street,	....		Concrete Curb,	....	2,704	May 13, 1913.
Bryant street,	....			1,727	....	Sept. 9, 1913.
Chestnut street,	329	Cement Concrete,	New,	....	640	May 13, 1913.
Cross street,	282	Cement Concrete,	New,	....	282	April 29, 1913.
Commonwealth avenue,	....		Concrete Curb,	....	1,883	May 21, 1912.
Dickinson street,	399	Cement Concrete,	New,	....	....	Oct. 22, 1912.
Dickinson street,	....			617	....	Sept. 9, 1913.
Donald street,	....			828	....	Sept. 10, 1912.
Greenacre square,	....			581	....	Oct. 21, 1913.
Groveland street,	1,192	Cement Concrete,	New,	....	....	Oct. 22, 1912.
Kensington avenue,	560	Cement Concrete,	New with Concrete Curb,	....	668	Aug. 20, 1912.
Lyndale street,	....			2,101	....	Sept. 9, 1913.
Massachusetts avenue,	....		Concrete Curb,	....	2,678	Sept. 7, 1912.

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SIDEWALKS AND CURBING.

CONSTRUCTION AND RECONSTRUCTION.

BY ORDERS OF THE CITY COUNCIL.

(*Concluded*)

Street.	L'gth in ft.	Sidewalks.		Curbing. Length in ft.		Order Approved.
		Material.	Description.	4″	6″	
Moore street,	1,422	Cement Concrete,	New,	....	....	June 10, 1913.
North Main street,	....			....	1,436	April 29, 1913.
Orange street,	....			873	....	Sept. 9, 1913.
Palmer avenue,	....			....	232	June 18, 1912.
Pecousic avenue,	985	Cement Concrete,	New,	....	....	Feb. 3, 1913.
Prospect street,	....			50	....	June 10, 1913.
Ranney street,	58	Cement Concrete,	New with Concrete Curb,	....	307	August 20, 1912.
Sumner avenue,	481	Cement Concrete,	New,	....	....	Dec. 10, 1912.
Talcott street,	200	Cement Concrete,	New,	704	....	June 10, 1913.
Wellington street,	610	Cement Concrete,	New,	....	....	Sept. 10, 1912.
White street,	....			1,162	....	July 10, 1913.
Wilbraham road,	....			285	....	August 20, 1912.
Worthington street,	353	Brick,	Relaid,	....	....	Sept. 10, 1912.
TOTALS,	9,091			10,768	11,091	

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SIDEWALKS AND CURBING.

CONSTRUCTION.

Kind of Work.	Direct Cost.	Indirect Cost.	Total Cost.	Total Work Done.	Cost Per Unit.
Concrete walks,	$5,728 80	$86 26	$5,815 06	4,069 sq.yd.	$1 429
Concrete curb,	1,927 19	23 10	1,950 29	3,679 ft.	52
Concrete curb and gutter,	3,886 01	29 14	3,915 15	4,583 ft.	85
Granite curb,	6,321 40	61 14	6,382 54	13,619 ft.	46
Crosswalks,	561 87	27 30	589 17	20 ft.	29 45
Miscellaneous,	1,222 58	24 54	1,247 12		
Totals,	$19,647 85	$251 48	$19,899 33		

SIDEWALKS AND CURBING.

MAINTENANCE.

Kind of Work.	Direct Cost.	Indirect Cost.	Total Cost.	Total Work Done.	Cost Per Unit.
Concrete walks,	$1,458 34	$12 79	$1,471 13		
Brick walks,	1,254 71	92 76	1,347 47		
Concrete curb,	14 05	1 36	15 41		
Granite curb,	5,817 40	34 22	5,851 62	14,619 ft.	$0 40
Crosswalks,	850 72	51 90	902 62	44 ft.	20 54
Driveways,	952 09	20 88	972 97		
Miscellaneous,	318 83	230 10	548 93		
Totals,	$10,666 14	$444 01	$11,110 15		

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BRIDGES.

	Direct Expense.	Indirect Expense.	Totals.
Abbe avenue,	$517 85	$51 79	$569 64
Armory street (B. & A.),	1,084 94	108 50	1,193 44
Armory street (N. Y., N. H. & H.),	842 72	84 27	926 99
Ludlow,	1,786 61	178 66	1,965 27
Main street,	3 62	36	3 98
Mill River,	4 52	45	4 97
North End,	140 54	14 06	154 60
Old Toll,	3,356 92	335 69	3,692 61
Pasco street,	30 34	3 03	33 37
Plainfield street,	613 48	61 35	674 83
Red House Crossing,	140 99	14 10	155 09
St. James avenue,	2 09	21	2 30
South End,	8 39	84	9 23
Sundry,	98 86	9 89	108 75
Materials on hand,	278 97		278 97
Totals,	$8,910 84	$863 20	$9,774 04
Contract for roofing Old Toll Bridge,	975 00		975 00
Final Total,	$9,885 84		$10,749 04

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REPORT

OF

SEWER DIVISION

FISCAL YEAR ENDING NOVEMBER 29, 1913.

To F. H. Clark, Superintendent, Department of Streets and Engineering.

DEAR SIR:—I herewith submit a statement of receipts and expenditures of the Sewer Division, Department of Streets and Engineering, and descriptions of work done during the fiscal year ending November 29, 1913.

RECEIPTS.

Appropriation,	$47,950 00	
Transfers,	15,101 84	
Bond issue,	50,000 00	
		$113,051 84

EXPENDITURES.

Building private drains,	$5,805 36	
Cleaning sewers,	2,917 57	
Construction,	93,561 96	
Flushing sewers,	2,469 15	
Repairs,	3,311 26	
Unclassified,	2,491 02	
Transferred,	2,050 00	
Balance bond issue,	111 45	
Balance,	334 07	
		$113,051 84

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GENERAL DESCRIPTIONS.

The total expenditures for new sewer construction and reconstruction during the year amounted to $93,561.96. Deducting cost of sewers abandoned, amounting to $1,901.10, leaves $91,660.86 to be added to the value of the sewer system as of November 30, 1912.

The total value of our system on November 30, 1913, was accordingly $1,656,135.54, and embraces a total of 135 miles of sewers in the care of this department.

All sewer construction during the year has been done directly by this department.

SEWER FEES.

The receipts from entrance fees exclusive of the fees on account of building private drains amounted to $32,130.15, and the number of connections made to buildings during the year was 455.

PIPE SEWERS.

The length of pipe sewers laid during the year was 27,316 feet. As may be seen by reference to the table, this was distributed throughout the entire city, not only in the sections recently opened for residence purposes, but also in the older sections, where it has become necessary to replace old sewers with those of larger capacity and improved materials.

CONCRETE SEWERS.

A trunk sewer of Portland cement concrete has been built from Armory street, near the Hampden Paint Works, through Albany street, under the tracks of the Boston and Albany Railroad, across private property and through Chicopee road to St. James avenue, a distance of 6,016 feet, where connection is

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made with a section of 24-inch pipe sewer built in the fall of 1912. This, with a section of 24-inch and 20-inch pipe sewer laid this season in Page boulevard, completes what is known as the "East Springfield trunk sewer," with a total length of 12,245 feet, and affords sanitary drainage for the section of the city known as East Springfield.

CEMENT PIPE SEWERS.

We have continued during the year the policy of replacing the old cement pipe sewers with sewers of modern construction and larger capacity. About 2,500 feet have been relaid with vitrified clay pipe this season. In many cases the old cement pipe was found in a very bad condition. There are still remaining some twenty-one miles of cement pipe sewers which should be replaced as rapidly as practicable, as they are a continued source of expense and danger.

LOWELL STREET.

Owing to the unusual high water in the Connecticut river last March, what is known as the "Lowell street section" experienced a flood which did some damage to property in that vicinity, the water from the river backing in through the sewers and flooding a considerable territory to a depth of several feet. A small pump (used to lift over the dike the flow of water in the Lowell street sewer at times when the gate is closed to prevent water from the river backing in) was unable to take care of the water which overflowed into Lowell street from the sewers in the adjacent streets, and damage resulted.

To prevent as far as possible a recurrence of this trouble, it is planned to install a centrifugal pump at the lower end of Lowell street, with a capacity to lift over the dike all the

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water that will reach it through the Lowell street sewer. With traps placed in the wellholes in the adjacent streets, it is believed that the flow from them will be so reduced that whatever water reaches Lowell street can be taken care of by this pump.

The work of installing this pump has begun and it is expected it will be in position before the spring floods arrive.

ACKNOWLEDGMENTS.

It gives me pleasure to acknowledge the co-operation of the foreman and men of this division, and to thank you for the support and courtesies at all times received from you.

Respectfully submitted,

HOWARD O. BUCK,

Deputy Superintendent of Sewers.

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SEWER CONSTRUCTION AND RECONSTRUCTION.

DESCRIPTION AND COSTS—FISCAL YEAR, 1913.

Location.	Material.	Length in Feet.	Size.	Cost.
Albany street, Armory street, easterly	Con.	1,083	5'-0" Circular	$19,453 90
		478	4'-3" Circular	
		445	3'-9" Circular	
Albemarle street, Gunn square brook sewer to Westford circle	Clay	329	12"	333 56
Albemarle street, Westford circle northerly	Clay	564	10"	499 51
Andrew street, manhole		....	....	49 54
Armory street, wellholes		....	....	87 67
Ashmun street, wellholes		....	....	55 10
Bartlett avenue, Massasoit place northerly	Clay	235	10"	264 39
Beaumont terrace, Beaumont street easterly	Clay	271	10"	298 12
Belmont avenue, wellholes		....	....	81 72
Belvidere avenue, completion		....	....	15 40
Berendo street, wellholes		....	....	44 88
Birnie avenue, wellholes		....	....	37 11
Blaine street extension, Greenbrier to Brunswick street	Clay	255	24"	581 10
Bloomfield street, extension easterly to Earl street	Clay	130	15"	229 73
Boylston street, wellhole		....	....	17 52
Bryant street, wellholes		....	....	35 52
Burr street, wellholes		....	....	21 03
Cambridge street, Burr street northerly	Clay	162	10"	142 44
Carew street, wellholes		....	....	23 49
Center street, I. O., extension easterly of Cedar street	Clay	50	10"	38 34
Chestnut street, wellholes		....	....	166 72
Chicopee road, land of B. & A. R. R. to St. James avenue	Con.	1,170	2'10"x4'3" Elliptical	6,574 76
Chilson street, extension southerly	Clay	78	10"	98 71
Church street, North street westerly, relaying	Clay	90	18"	316 36
Clinton street, wellhole		....	....	11 07
Connecticut avenue, Farnsworth street southerly	Clay	221	10"	153 57
Cross street, wellholes		....	....	73 00
Crossett avenue, Willow street westerly	Clay	169	10"	259 82

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SEWER CONSTRUCTION AND RECONSTRUCTION.—*Continued.*

Location.	Material.	Length in Feet.	Size.	Cost.
Dale street, William street northerly..	Clay	143	10″	$288 91
Dale street, Winthrop street northerly	Clay	123	10″	259 62
Daviston avenue, Sumner avenue northerly	Clay	165	18″	255 80
Dexter street, Knox street westerly, relaying	Clay	300 282	15″ 12″	686 15
Dickinson street, wellholes		....	....	100 73
Division street, Plainfield street westerly	Clay	300 101	18″ 15″	599 17
Dunmoreland street, Wilbraham road southerly, extension	Clay	102 197	12″ 10″	257 89
Earl street, Bloomfield street northerly	Clay	190	10″	157 32
Eldredge street, Belmont avenue southerly	Clay	266	10″	231 00
Eleanor road, White street southerly..	Clay	277 255	15″ 12″	671 88
Elm street, wellholes		....	....	15 21
Everett street, wellholes		....	....	12 19
Falmouth street, I. O., Parker street westerly	Clay	204	18″	275 44
Farnsworth street, extension easterly to Connecticut avenue,	Clay	93	12″	51 94
Forest Park avenue, wellholes		....	....	87 94
Franklin street, flush gate		....	....	25 15
Grand street, flush gate		....	....	30 85
Greenacre square, wellholes		....	....	31 48
Greenbrier street, flush gate		....	....	30 95
Greenwood street, incomplete		....	....	43 43
Grenada terrace, wellholes		....	....	168 02
Hampshire street, I. O., extension westerly	Clay	145	10″	148 06
Hawley street, wellholes		....	....	19 77
Hayden avenue, manholes		....	....	35 30
Huntington street, flush gate		....	....	25 03
Irvington street, flush gate		....	....	20 12
Kensington avenue, wellholes		....	....	223 71
Kenwood terrace, extension southerly.	Clay	131	10″	158 25
Kimberly avenue, White street northerly	Clay	250 282	12″ 10″	804 80
Kimberly avenue, Rupert street northerly	Clay	272	12″	
King street, Westford avenue easterly.	Clay	225	10″	197 13
Leete street, Longhill street easterly..	Clay	431 270 150	18″ 15″ 10″	1,533 79

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SEWER CONSTRUCTION AND RECONSTRUCTION.—*Continued.*

Location.	Material.	Length in Feet.	Size.	Cost.
Liberty street, Garden brook sewer to Chestnut street, relaying	Clay	644 325 184	20″ 15″ 12″	$2,264 85
Liberty street, Home street to Roy avenue	Clay	733	15″	1,162 10
Longfellow terrace, extension southerly	Clay	229	10″	153 84
Lyman street, wellhole		....	....	10 43
Malden street, flush gate		....	....	18 24
Marlboro avenue, flush gate		....	....	18 12
Marlborough street, Bristol street easterly	Clay	160	10″	101 12
Massachusetts avenue, Westford circle southerly	Clay	160	12″	218 35
Massachusetts avenue, wellholes		....	....	80 22
Maynard avenue, Shattuck avenue northerly	Clay	1,029	10″	705 78
Middlesex street, extension southerly to Marlborough street	Clay	235	10″	152 39
Mill street, wellholes		....	....	31 84
Montpelier street, Main to Niagara street	Clay	297	24″	1,149 00
Moore street, flush gate		....	....	20 23
Morningside Park, White street easterly	Clay	392	15″	460 81
Newbury street, Carew street to Sherman avenue	Clay	1,070	10″	1,088 24
Niagara street, Montpelier street to Saratoga street	Clay	220	18″	539 50
Niagara street, Montpelier street to Oswego street	Clay	146	18″	358 02
Noble street, North Main to Chestnut street	Clay	514	15″	1,074 99
Northampton avenue, manholes		....	....	46 68
North Main street, Morgan street southerly, completion		....	....	24 42
North Main street, Eagle street northerly, extension to Walter street	Clay	115	24″	413 81
North Main street, Wason avenue southerly, extension to Walter st.	Clay	155 204	24″ 15″	1,291 96
North Main street, near Chicopee line southerly	Clay	201 199	15″ 12″	812 39
Oak Grove avenue, flush gate		....	....	40 79
Orange street, wellholes		....	....	85 13
Osgood street, Garden brook to North Main street, relaying	Clay	257	15″	547 77

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SEWER CONSTRUCTION AND RECONSTRUCTION.—*Continued.*

Location.	Material.	Length in Feet.	Size.	Cost.
Oswego street, Niagara street easterly	Clay	256 259 246	15″ 12″ 10″	$1,309 66
Page boulevard, extension northerly and easterly to Stevens street....	Clay	1,585 1,412	24″ 20″	11,211 65
Pasadena avenue, manholes.....	Clay	....	....	67 04
Plainfield street, Roseland street to Division street.....	Clay	290	24″	1,028 46
Private ways:				
East Springfield sewer, northerly and easterly from Albany street through private land to Chicopee road.....	Con.	1,920 760 160	3′-9″ Circular 2′-6″ Circular 2′10″x4′3″ Elliptical	16,541 83
Gunn square brook sewer, from Hickory street through private land to Albemarle street.....	Clay	1,585	15″	1,401 20
In front and around High School of Commerce.....	Clay	35	15″	
Rapalus avenue, I. O., flush gate.....		....	....	18 58
Reed street southerly, extension.....	Clay	53	10″	109 95
Rittenhouse terrace, Sumner avenue to Daviston avenue.....	Clay	250 249 249 128	18″ 15″ 12″ 10″	1,074 11
Rochelle street southerly, extension...	Clay	200	15″	224 10
Roseland street westerly, extension...	Clay	68	12″	63 42
Rupert street, White street to Kimberly avenue.....	Clay	241 152	18″ 15″	614 13
Ruskin street, Eleanor road southerly.	Clay	231 233	12″ 10″	397 51
Sachem street, flush gate.....		....	....	23 54
Saratoga street, Niagara to Richelieu street.....	Clay	233 229 129	15″ 12″ 10″	975 60
Sorrento avenue, wellholes.....		....	....	42 44
Spring street, wellholes.....		....	....	22 63
State street, manholes.....		....	....	29 37
State street, wellholes.....		....	....	30 79
Stebbins street, Union street southerly	Clay	151	10″	196 80
Stevens street, Page boulevard southerly.....	Clay	438	10″	483 12

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SEWER CONSTRUCTION AND RECONSTRUCTION.—*Concluded.*

Location.	Material.	Length in Feet.	Size.	Cost.
Stratford terrace, White street easterly	Clay	190 314	12″ 10″	$562 32
Taylor street, completion		....	....	1,567 32
Thomas street, flush gate		....	....	26 50
Trillium street, flush gate		....	....	17 88
Tyler street, Oak to Orleans street, relaying	Clay	419	15″	685 55
Union street, wellhole		....	....	29 66
Wason avenue, wellholes		....	....	31 90
Wellington street, wellholes		....	....	22 75
Westford circle, Albemarle street to Westford avenue	Clay	786	12″	1,434 19
White street, flush gate		....	....	21 41
White street, wellholes		....	....	201 49
Whiting street, Plainfield street westerly, completion	Clay	117 297 196	18″ 15″ 12″	595 31
Whitney place, flush gate		....	....	36 19
Wilbraham road, wellholes		....	....	121 53
William street, extension easterly to Dale street	Clay	23	10″	24 97
Winter street, Chestnut street easterly	Clay	137	20″	414 46
Woodside terrace, wellholes		....	....	12 39
Woodworth avenue, State street southerly	Clay	199 131	12″ 10″	614 25
Worcester avenue, wellholes		....	....	139 05
Worcester street, I. O., extension easterly	Clay	252 176	15″ 10″	854 78
		33,332		$93,561 96

NOTE:—The costs of the above described sewers include the costs of manholes, wellholes and flush gates.

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SEWER CONSTRUCTION CLASSIFIED.

VITRIFIED CLAY PIPE.

Sizes.	Length in Feet.		Total Length.
	New Construction.	Reconstruction.	
10″	8,257	90	8,347′
12″	4,067	466	4,533′
15″	6,081	1,301	7,382′
18″	2,164		2,164′
20″	1,549	644	2,193′
24″	2,697		2,697′
Total,	24,815	2,501	27,316′

CONCRETE.

Sizes.	Length in Feet.		Total Length.
	New Construction.	Reconstruction.	
5′-0″ circular.....	1,083		1,083′
4′-3″ circular.....	478		478′
3′-9″ circular.....	2,365		2,365′
2′-6″ circular.....	760		760′
2′-10″x4′-3″ elliptical	1,330		1,330′
Total,	6,016		6,016′

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SEWERS ABANDONED—1913.

Location.	Material.	Length in Feet.	Sizes.	Cost.	
Church street—Garden Brook to North street	Cem.	80	15″	$157 23	
	Clay	10	18″	25 91	
					$183 14
Dexter street—Knox to Pine st	Cem.	558	12″	$98 45	
		24	10″	26 02	
					124 47
Liberty street—Garden Brook to Chestnut street	Cem.	967	15″		
	Cem.	171	8″		908 02
Osgood street—Garden Brook to North Main street	Cem.	257	12″		320 94
Tyler street—Oak to Hancock street	Cem.	419	15″		364 53
		2,486			$1,901 10

SUMMARY.

Description.	Length in Feet.	Cost.
Concrete sewer built by bond issue	6,016	$42,570 49
Clay pipe sewers, built by regular appropriation and bond issue	27,281	48,080 77
Flush gates, manholes and wellholes built by regular appropriation		2,910 70
	33,297	$93,561 96
Clay pipe sewer built at expense of private parties	35	
	33,332	$93,561 96
Sewers abandoned	2,486	$1,901 10
Net addition to sewer system	30,846	$91,660 86

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SEWER CLEANING AND REPAIRS.

	COST OF	
	Cleaning.	Repairs.
Alfred street,	....	$14 65
Andrew street,	....	28 72
Bay street,	$26 37	....
Belmont avenue,	141 36	28 00
Birnie avenue,	108 26	2 77
Bliss street,	....	12 24
Bond street,	....	79 02
Bowdoin street,	49 70	....
Boylston street,	....	19 71
Bridge street,	....	92 94
Broad street,	48 13	3 36
Cherryvale avenue,	17 50	....
Chestnut street,	....	80 19
Clinton street, submerged outlet,	18 14	....
Colton street,	....	12 78
Congress street,	....	117 33
Continental avenue,	....	13 69
Cross street,	....	99 40
Dartmouth street,	13 81	....
Dickinson street,	149 34	32 39
Eastern avenue,	41 25	76 00
Elm street, submerged outlet,	19 55	....
Everett street,	....	11 50
Forest Park avenue,	10 94	16 03
Foster street,	....	11 49
Franklin street,	....	107 99
Fremont street,	....	7 43
Fulton street,	17 50	121 12
Garden Brook,	465 59	....
Grace street,	15 32	1 13
Grand street,	13 13	....
Granville street,	19 70	....
Greenacre square,	....	10 73
Hayden avenue,	35 93	....
Howard street,	....	10 14
Hubbard avenue,	10 93	....
Keith street,	17 50	....
Kenwood park,	13 75	....
Laurel avenue,	....	229 66
Leete avenue,	....	14 43
Liberty street,	30 63	133 88
Logan street,	10 93	....
Lowell street,	218 07	10 21
Lyman street,	....	11 09
Madison avenue,	13 13	....
Main street,	316 82	25 79
Main street, I. O.,	40 71	....

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SEWER CLEANING AND REPAIRS.—*Continued.*

	COST OF	
	Cleaning.	Repairs.
Malden street,	$26 24	....
Manhattan street,	26 25	$99 55
Maplewood street,	25 00	....
Marble street,	....	19 43
Massachusetts avenue,	....	30 00
Massasoit street,	11 88	....
McKnight street,	....	11 08
Mill street,	12 37	....
Montrose street,	17 83	....
North Main street,	....	45 43
Norwood street,	17 51	15 37
Oak street, I. O.,	....	22 28
Olive street,	12 00	....
Orange street,	56 89	10 00
Orchard street,	33 68	....
Osgood street,	....	20 11
Ozark street,	17 50	....
Palmer avenue,	21 87	....
Parkwood street,	28 13	3 13
Pasco street, I. O.,	....	25 28
Pecousic avenue,	164 13	....
Pendleton avenue,	43 81	....
Plainfield street,	....	42 29
Pynchon street,	66 01	....
Revere street,	39 38	....
School street,	33 89	....
Spring street,	....	22 00
State street,	....	176 59
St. James avenue,	....	122 15
Sumner avenue,	7 16	21 82
Sundry sewers, costing less than $10,	183 45	828 73
Tenth street,	....	74 27
Trafton road,	....	16 42
Tyler street,	70 41	....
Union street,	28 62	....
Vassar street,	....	38 26
Vinton street,	....	73 89
Walnut street,	....	20 48
Wareham street,	13 13	....
Water street,	37 19	58 60
Wilbraham road,	....	11 71
Wilcox street,	17 50	....
Winchester street,	....	22 10
Worcester street, I. O.,	....	14 48
Worthington street, submerged outlet,	21 75	....
	$2,917 57	$3,281 26

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CITY OF SPRINGFIELD,

SEWER SYSTEM TABULATED TO DECEMBER 1, 1913.

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Abbe ave., Fisk ave., westerly	301	15″	Clay	$497.38	
	275	12″	Clay		
Plainfield st., westerly	300	18″	Clay	1,405.16	
	300	15″	Clay		
	301	12″	Clay		
	200	10″	Clay		
					$1,902.54
***Acorn st.**, Sycamore to Edgewood st	276	10″	Clay		176.64
Acushnet ave., Main st., easterly	294	20″	Clay		
	279	18″	Clay		298.94
	271	15″	Clay		
	26	12″	Clay		
Adams st., Main to Ashmun st	294	20″	Clay		
	245	18″	Clay	3,322.93	
	323	15″	Clay		
	221	12″	Clay		
Richelieu st., westerly	237	12″	Clay	304.12	
					3,627.05
Albany st., Armory st., easterly	1,083	5′-0″ cir.	Con.		
	478	4′-3″ cir.	Con.		19,453.90
	445	3′-9″ cir.	Con.		
Albemarle st., Wilbraham road, southerly	300	15″	Clay		
	314	12″	Clay		971.81
	421	10″	Clay		
*Westford circle, northerly	564	10″	Clay		499.51
*Gunn Square brook to Westford circle	329	12″	Clay		333.56
Alden st., Hancock st. to	595	18″	Cem.	1,646.13	
Eastern ave	820	15″	Cem.		
Eastern ave. to Wilbraham ave	895	15″	Clay	911.39	
Wilbraham ave. to Hickory st	499	10″	Clay	250.86	
					2,808.38
Alderman st., Dickinson to Scott st	296	18″	Clay		
	304	15″	Clay		1,148.99
	300	12″	Clay		
	443	10″	Clay		
Alexander st., North st., easterly	288	10″	Clay		188.48
Alfred st., Birnie ave., easterly	377	10″	Clay		....
Allen ave., Allen st., easterly	338	10″	Clay		232.73

*Sanitary sewers.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Allen st., Mill river to Oakland st.	216	24″	Clay	$576.86	
Mill to Oakland st.	365	10″	Clay	447.19	
Oakland st. to Plumtree road	686	24″	Clay	1,832.06	
	383	18″	Clay		
	474	15″	Clay	1,701.91	
	580	12″	Clay		
	1,603	12″	Clay	950.46	
	1,401	10″	Clay	984.62	
					$6,493.10
Allendale st., North st., easterly	272	12″	Clay		
	340	10″	Clay		401.43
Amaron st., State st., southerly	349	10″	Clay		238.78
Amherst st., Harvard st., northerly	441	12″	Cem.	146.99	
	25	10″	Clay	23.78	
Princeton to Monmouth st	512	12″	Clay	622.90	
	191	10″	Clay		
					793.67
Andrew st., State st., northerly	463	20″	Clay		
	422	18″	Clay		1,858.75
	382	12″	Clay		
Applewood place, Belmont ave., northerly	469	10″	Clay		391.81
Arbor st., Butler to Carew st	398	12″	Clay		318.05
Arch st. (see Garden brook)					
Armory hill sewer (see private ways).					
Armory st., Worthington st., southerly	570	15″	Cem.	754.98	
Summer st., southerly	374	12″	Clay	384.78	
	325	10″	Clay	193.87	
B.& A.R.R. to Liberty st.	690	15″	Clay		
	360	12″	Clay	1,165.47	
	271	10″	Clay		
Liberty to Sullivan st.	450	1′-10″x2′-9″	Brick	2,439.42	
	476	1′- 8″x2′-6″	Brick		
Sullivan to Carew st.	156	24″	Clay		
	267	20″	Clay	1,006.45	
	290	12″	Clay		
Carew st., northerly	452	20″	Clay	1,255.27	
	803	10″	Clay		
Springfield st., southerly	31	20″	Clay	358.92	
	146	18″	Clay		
					7,559.16

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Ashley st., Cedar st., easterly	65	18″	Cem.	$80.45	
	580	15″	Cem.	1,555.00	
	697	12″	Cem.		
					$1,635.45
Ashmont st., Belmont ave., northeasterly	250	12″	Clay		351.57
	200	10″	Clay		
Atwater terrace, Springfield st., northerly	1,020	18″	Clay		1,448.06
Atwater road, Greene lane, westerly	322	20″	Clay		....
	199	18″	Clay		
Auburn st., Fulton st., easterly	397	12″	Clay		655.06
	335	10″	Clay		
Austin st., State st., northerly	363	10″	Clay		334.91
Autumn st., Summer to Worthington st	239	15″	Clay		715.29
Avon place, Maple st., easterly	695	24″	Clay		3,359.45
Bancroft st., Garden brook to Chestnut st	1,361	3′-4″x5′-0″	Brick		
including Chestnut st., Bancroft to Montmorenci st	379	3′-2″x4′-9″	Brick		8,914.04
Montmorenci st., Chestnut st., easterly	43	3′-2″x4′-9″	Brick		
Bartlett ave., Massasoit place, northerly	235	10″	Clay		264.39
Bay st., St. James ave. to Pleasant st	250	15″	Clay		
	245	12″	Clay	715.01	
	228	10″	Clay		
Florida to Pleasant st	235	12″	Clay	321.02	
Florida to Sherman st	304	20″	Clay		
	377	18″	Clay	1,092.89	
	812	15″	Clay	945.16	
Sherman to Clarendon st.	151	8″	Cem.	46.82	
Catharine to Clarendon st.	194	10″	Clay	200.66	
Bowles to Cambridge st.	1,037	2′-8″x4′-0″	Brick		
	360	2′-2″x3′-3″	Brick	8,056.62	
Cambridge to Sycamore st.	332	24″	Clay		
	360	20″	Clay	1,348.03	
					12,726.21
Beacon st., Eastern ave. to Colton st	250	10″	Clay	152.81	
Colton st., easterly	106	8″	Clay	75.08	
					227.89
Beaudry st., I. O., Main st., southerly	300	12″	Clay		745.95
	270	10″	Clay		

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Beaumont st., Belmont ave., northerly	250	12″	Clay	$403.87	
	431	10″	Clay		
Belmont ave. to Sumner ave.	264	10″	Clay	183.91	
					$587.78
Beaumont terrace, Beaumont st., easterly	271	10″	Clay		298.12
Beech st., Central st., northerly	427	10″	Cem.		124.37
Beechwood ave., Sumner to Spruceland ave.	595	12″	Clay		19.09
Belgrade place, Walnut st., westerly	220	8″	Clay		
	140	6″	Clay		....
Bellevue ave., Belmont ave., easterly	300	18″	Clay		
	300	15″	Clay	....	
	194	12″	Clay		
Dickinson st., westerly	744	10″	Clay	....	
					....
Belmont ave., Fort Pleasant ave., easterly	90	10″	Clay	93.92	
Mill river to Woodside ter.	954	20″	Clay	2,698.67	
Woodside ter. to Litchfield	660	2′- 0″x3′-0″	Brick		
	445	1′-10″x2′-9″	Brick		
	595	1′- 8″x2′-6″	Brick	11,831.91	
	550	1′- 6″x2′-3″	Brick		
Litchfield st. to Kenwood Park	432	20″	Clay		
	493	18″	Clay	1,495.58	
Kenwood Park to Sumner ave.	301	15″	Clay		
	403	12″	Clay	871.69	
	616	10″	Clay		
*Sumner ave. to Woodlawn st.	830	3′- 4″x5′-0″	Brick		
	819	3′- 0″x4′-6″	Brick	8,216.97	
	245	3′- 0″x4′-6″	Br.C.		
	416	2′-10″x4′-3″	Br.C.	3,470.41	
*Woodlawn to White st.	1,637	2′-10″x4′-3″	Con.	7,237.33	
					35,916.48
Belmont place, Belmont ave., southerly	216	10″	Clay		159.78
Belvidere avenue,	300	20″	Clay		
Belmont ave., southerly	201	18″	Clay		839.77
Benton ave., Benton st., easterly	300	10″	Clay		
	325	8″	Clay		360.43
Benton st., State st., southerly	301	12″	Clay		
	300	10″	Clay	513.96	
	247	8″	Clay		
	320	8″	Clay	419.68	
					933.64

*Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Berendo st., Grenada terrace to Alderman st....	345	12″	Clay		$327.55
Berkeley st., Princeton to Monmouth st.....	483	12″	Clay		560.02
Berkshire st., I. O.....					
Oak to Myrtle st.....	701	12″	Cem.	$946.21	
Oak st., easterly.....	387	12″	Clay	389.89	
Chestnut to Myrtle st....	577	12″	Clay	545.74	
					1,881.84
Besse place, Main st., westerly.....	290	10″	Clay		....
Biltmore st., Dickinson st.	350	15″	Clay		
to Trafton road.....	349	12″	Clay		866.51
	351	10″	Clay		
Birnie ave., Wason ave.,					
northerly and easterly	896	24″	Clay	1,534.02	
to North Main st.....	174	15″	Clay		
Wason ave., southerly....	350	18″	Clay	1,024.75	
	417	15″	Clay		
Worcester st. extension, northerly to Grace st...	162	15″	Cem.	....	
Worcester st. extension, southerly to Walter st..	144	12″	Cem.	....	
Douglas st., northerly....	292	24″	Clay		
	303	20″	Clay	1,149.93	
	304	15″	Clay		
	144	10″	Clay		
Douglas st., to near	373	1′-10″x2′-9″	Brick	1,319.73	
Hooker st.....	312	20″	Clay	768.74	
	316	18″	Clay		
	168	15″	Clay	158.56	
Arch to Hooker st.....	1,048	24″	Clay	37.11	
					5,992.84
Birnie ave. extension, Arch st., southerly.....	445	10″	Clay		....
Blaine st., White to Brunswick st.....	373	24″	Clay		850.08
Blake hill, Fort Pleasant ave., easterly.....	244	10″	Clay		236.22
Bliss st., from Main to N. Y., N. H. & H. R. R...	1,284	12″	Cem.		1,190.68
Bloomfield st., Oakland to	500	18″	Clay		1,556.20
Earl st.....	527	15″	Clay		
Bond place, including 41 feet in Bridge st. (for cost see Symonds ave.).	203	12″	Cem.		....
Bond st., Garden brook	341	2′-0″x3′-0″	Brick	1,580.25	
sewer to Chestnut st...	959	24″	Clay	2,261.42	
					3,841.67

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Bowdoin st., Worthington	660	15″	Cem.	$762.11	
st., southerly	285	12″	Clay	371.52	
Worthington to Ingersoll grove	819	12″	Cem.	758.64	
					$1,892.27
Bowles st., Bay to McKnight	695	15″	Cem.	1,083.39	
	64	15″	Clay	136.50	
Pease st., northerly	275	8″	Clay	62.76	
					1,282.65
Boylston st., Cypress to	610	18″	Cem.		1,656.24
Clinton	346	15″	Cem.		
Burlington st., Belmont ave., northerly	137	10″	Clay		....
Bradford st., North Main	352	15″	Cem.		1,301.99
to Fulton st	758	12″	Cem.		
Bridge st., Main st. to	798	12″	Cem.	762.38	
Conn. river	275	15″	Clay	429.14	
Main to Chestnut st	1,158	2′-0″x3′-0″	Brick	5,414.20	
					6,605.72
Brightwood ave., Plainfield st., westerly	171	15″	Clay		178.00
Bristol st., Wilbraham road	299	15″	Clay		
to Marlborough st	560	12″	Clay	599.47	
Marlborough st., southerly	552	10″	Clay	293.99	
					893.46
Broad st., Hanover to Main st	970	15″	Cem.		1,401.19
Brookline ave., North st.,	328	12″	Clay		29.57
easterly	171	10″	Clay		
Brooklyn ave., Sumner ave., southerly	423	12″	Clay		329.56
Brown st., Yale to Bay st.	483	10″	Cem.		357.65
	21	8″	Cem.		
Brunswick st., Brooklyn ave., southerly	307	10″	Clay		190.48
Bryant st., Belmont to	274	15″	Clay		
Sumner ave	301	12″	Clay		763.96
	300	10″	Clay		
Buckingham place, Bay st., westerly	235	10″	Clay		168.97
Buckingham st., Bay to	651	12″	Clay		
Clarendon st	35	12″	Cem.	597.24	
Bay st., southerly	305	18″	Clay		
State to Bay st	345	15″	Clay	1,158.40	
	675	12″	Clay		
					1,755.64

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Burr st., Andrew st., easterly	570	12″	Clay		$480.06
Butler st., Chestnut to Cass st.	1,268	20″	Clay	$2,119.54	
Cass st., easterly	321	20″	Clay	520.71	
					2,640.25
Calhoun st., North Main to North st.	853	12″	Clay	701.77	
North st., easterly	300	8″	Clay	262.38	
					964.15
Cambridge st., Bay st., southerly	276	20″	Clay		
	331	18″	Clay	1,204.43	
	266	15″	Clay		
	302	12″	Clay		
	278	10″	Clay	411.63	
Burr st., northerly	162	10″	Clay	142.44	
					1,758.50
Card-factory pond (see private ways).					
***Carew st.**, Main st. to Garden brook (cost shown	250	4′-6″x6′-9″	Brick	....	
under Clinton st.)	32	5′-0″ cir.	Brick	....	
	1,456	4′-3″ cir.	Brick		
Garden brook to Prospect	1,257	3′-0″ cir.	Brick	21,951.53	
st.	791	2′-8″ cir.	Brick		
Massasoit st., easterly	580	18″	Cem.	671.51	
	200	12″	Cem.	153.28	
Prospect to Armory st.	989	2′-8″ cir.	Con.		
	1,365	2′-6″x3′-9″	Con.	8,513.49	
Armory st., easterly	1,101	10″	Clay		
	448	8″	Clay		
Liberty st., easterly	502	15″	Clay	2,424.35	
	499	12″	Clay		
	434	10″	Clay		
					33,714.16
Carlisle st., Wilbraham road, southerly	400	10″	Clay		355.69
	246	8″	Clay		
Cass st., Liberty to Franklin st.	500	12″	Clay	575.28	
	163	10″	Clay		
Linden st., southerly	596	15″	Clay	892.07	
Linden st., northerly	224	12″	Clay		
					1,467.35
Catharine st., Dartmouth to McKnight st.	833	2′-0″x3′-0″	Brick	4,428.92	
State to McKnight st.	348	15″	Clay		
	438	12″	Clay	1,348.95	
	333	10″	Clay		
					5,777.87

*Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Cedar st., Pine to Walnut st.	180	3′-10″x5′-9″	Brick	$889.35	
	1,074	3′- 8″x5′-6″	Brick	6,206.73	
Pine st., westerly	378	12″	Cem.	324.09	
					$7,420.17
Cedar st., I. O., Main to river	433	2′-0″x3′-0″	Brick	2,001.44	
Main to Centre st.	274	12″	Clay	263.92	
					2,265.36
Cemetery brook (see private ways).					
Center street, Oak Grove ave., northerly	1,008	10″	Clay		353.08
Centre st., I. O., Oak to Pine st.	463	12″	Cem.	546.58	
Pine to Cedar st.	349	12″	Clay	668.19	
	300	10″	Clay		
Cedar st., easterly	450	10″	Clay	410.05	
					1,624.82
Central st., Main st., easterly	99	15″	Cem.	147.60	
	546	12″	Cem.	385.49	
Main to Maple st.	63	2′-0″x3′-0″	Brick	119.57	
	463	2′-0″x3′-0″	Con.	2,332.17	
	460	24″	Clay	2,665.22	
	434	20″	Clay		
near Maple st. to Sterns terrace	581	18″	Clay	918.22	
	105	12″	Clay	199.95	
Sterns terrace to Cedar st.	334	18″	Cem.	102.50	
Pine st., westerly	500	12″	Cem.	568.42	
Pine to Spruce st.	339	12″	Cem.	376.00	
	335	12″	Clay	514.05	
	310	10″	Clay		
Spruce to Hancock st.	861	20″	Clay	1,344.35	
Hancock to Mill st.	597	2′-0″x3′-0″	Brick	2,135.31	
Mill st. to Mill river	40	24″	Clay	136.83	
					11,945.68
Chapel st., Eastern ave., easterly	400	10″	Clay		208.13
Chapin terrace, Chestnut st., easterly	327	15″	Clay		1,124.82
	279	12″	Clay		
Chase ave., Fort Pleasant ave., easterly	238	12″	Clay		24.49
	333	10″	Clay		
Charles st., Liberty to Franklin st.	27	12″	Clay	647.16	
	620	12″	Cem.		
Liberty st., southerly	29	12″	Clay	12.94	
					660.10
Charter ave., Walnut st., easterly	527	12″	Clay		475.20

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Cherrelyn ave., Phœnix st.,	300	15″	Clay	$410.62	
southerly	651	12″	Clay	574.73	
					$985.35
Cherry st., Mill river to	398	18″	Clay		
Central st	434	15″	Clay		1,454.15
	251	12″	Clay		
	295	10″	Clay		
Cherryvale ave., Longhill	401	10″	Clay		
st. to Florentine gardens	195	8″	Clay		15.74
Chester st., Mill st., north-	459	12″	Clay		
erly	161	10″	Clay	509.11	
	112	8″	Clay	....	
					509.11
Chestnut st., Edwards st.,					
southerly	575	12″	Cem.	579.02	
Mattoon st., southerly	288	15″	Cem.	319.69	
Pearl to Mattoon st	313	1′-4″x2′-0″	Brick	445.40	
Pearl to Bridge st	143	1′-8″x2′-6″	Brick	599.51	
Bridge to Worthington st.	480	2′-0″ cir.	Brick	....	
Worthington to Bridge st.	353	24″	Clay	1,175.53	
Worthington to Taylor st.	60	18″	Cem.	302.35	
	244	12″	Cem.		
Lyman st. to B. & A. R. R.	134	18″	Cem.	366.50	
	72	12″	Cem.		
Franklin st., southerly	500	12″	Cem.	387.79	
Franklin st., northerly	397	12″	Cem.	294.14	
Essex to Everett st	374	15″	Cem.	586.72	
Carew st., southerly	126	8″	Clay	100.68	
Carew to Prospect st	424	24″	Clay	1,618.64	
	537	20″	Clay		
Prospect st., northerly	220	12″	Cem.	178.88	
Bancroft st., southerly	172	12″	Cem.	123.00	
	108	12″	Clay	190.55	
	19	10″	Clay		
Bancroft to Montmorenci st	391	15″	Cem.	535.24	
Bancroft to Montmorenci st. (see Bancroft st.)	....	3′-2″x4′-9″	Brick	....	
Montmorenci to Waverly st	185	12″	Cem.	1,100.74	
	717	12″	Clay		
Douglas st., southerly	450	10″	Clay	432.05	
Douglas to Springfield (see Springfield st.)	....	3′-6″ cir.	Brick	....	
Merwin st., southerly	178	10″	Clay	....	
Eagle st., northerly	87	15″	Clay	....	
Eagle st., southerly	171	10″	Clay	....	
					9,336.43

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Chestnut st., I. O., Worcester to Hampden st.	342	15″	Cem.	$340.25	
	30	15″	Clay	55.26	
Hampden to Berkshire st.	307	15″	Clay	342.65	
					$738.16
Chicopee road, land of B. & A. R. R., easterly to St. James ave.	1,170	2′-10″x4′-3″ Elliptical	Con.		6,574.76
Chilson st., Sumner ave., southerly	304	10″	Clay		252.28
Church st., Garden brook to North st.	636	18″	Clay		1,731.13
Churchill st., Sumner ave. to Garfield st.	580	12″	Clay	84.12	
	55	8″	Clay	6.89	
					91.01
Clantoy st., Phœnix to Dupont st.	398	15″	Clay		
	517	12″	Clay		1,130.95
	241	10″	Clay		
Claremont st., Orange st., southerly	492	10″	Clay		264.58
Clarendon st., Worthington st., westerly	205	10″	Clay	225.80	
Worthington to St. James ave.	336	18″	Cem.		
St. James ave. to Sherman st.	280	15″	Clay	1,859.31	
	605	12″	Clay		
					2,085.11
Clark st., Hancock st., westerly	520	10″	Clay		531.80
Clayton st., Plainfield st., westerly	299	18″	Clay	583.76	
	100	15″	Clay	163.91	
					747.67
Clermont st., I. O., Healey ave., easterly	150	10″	Clay		123.28
Cleveland st., Armory to Liberty st.	274	18″	Clay		
	250	15″	Clay		790.48
	276	12″	Clay		
	284	10″	Clay		
Clifford st., Bay st., northerly	250	12″	Clay		319.95
	119	10″	Clay		
Clifton ave., Central st., southerly	398	8″	Clay		134.54
Cliftwood st., Sumner ave., southerly	464	10″	Clay		37.90
Clinton st., Fulton to Boylston st.	150	10″	Clay	11.07	
Boylston st., easterly	410	12″	Cem.	441.52	
submerged outlet	176	24″	W'd	2,207.90	
	24	24″	C-ir.		

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Conn. river to Fulton st..	593	4′-10″x7′-3″			
Fulton st., Clinton to Sargeant st.....					
Sargeant st., Fulton to Main st.....			Brick	$26,137.87	
Carew st., Main st. to Garden brook.....					
(For lengths and sizes see individual streets.)....					
					$28,798.36
Clyde st., Plainfield st.,	350	18″	Clay		
westerly.....	350	15″	Clay		1,519.51
	271	12″	Clay		
College st., State st. to					
Shattuck ave.....	839	12″	Clay	207.53	
*Shattuck ave. to Acorn st.	311	12″	Clay	457.62	
	900	10″	Clay		
State st. to Wilbraham	34	12″	Clay	387.72	
road.....	443	10″	Clay		
					1,052.87
Collins st., Eastern ave. to	300	12″	Clay		
Logan st.....	269	10″	Clay		457.04
Colonial ave., State st.,	326	12″	Clay		
southerly.....	348	10″	Clay		25.65
Colton st., Wilbraham road	448	18″	Clay		
to Beacon st.....	569	15″	Clay		2,015.70
	658	12″	Clay		
Columbia terrace, Liberty					
st., north and east.....	498	10″	Clay		....
Commonwealth ave., Bel-	441	24″	Clay		
mont to Washington	500	20″	Clay	2,878.00	
ave.....	549	18″	Clay		
Washington ave. to Fair-					
view st.....	691	15″	Clay	720.72	
					3,598.72
Concord terrace, Wilbra-					
ham road, northerly...	253	10″	Clay		255.13
Congress st., Garden brook					
to Main st.....	53	12″	Cem.	75.46	
	319	12″	Clay	705.44	
Garden brook to Chestnut	133	20″	Clay		
st.....	198	18″	Clay		
	369	15″	Clay	1,463.00	
	288	12″	Clay		
	119	15″	Cem.	277.22	
	76	10″	Cem.		
					2,521.12

* Sanitary sewer.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Connecticut ave., Farnsworth st., southerly....	221	10″	Clay		$153.57
Continental st., Sumner ave. southerly.....	215	12″	Clay		102.05
	266	10″	Clay		
Converse st., Sumner ave. to Vermont st.....	506	18″	Clay		443.87
Cook's ave., Worthington st. to N. Church ave...	117	15″	Cem.		
N. Church ave., southerly (includes cost of N. Church ave.).....	69	10″	Cem.		573.84
Cornell st., Dartmouth terrace to Wellesley st....	185	15″	Clay	$543.05	
	374	12″	Clay		
Wellesley st., easterly....	186	10″	Clay	208.20	
Princeton st., westerly...	52	10″	Cem.	47.30	
	86	8″	Clay	88.04	
Princeton st., easterly....	181	10″	Cem.	132.12	
	120	10″	Clay	180.93	
					1,199.64
Cortland st., State st., northerly.....	164	15″	Clay		672.01
	621	12″	Clay		
Cottage ave. (see Melrose st.)					
Court st., Court Square ave., westerly.....	461	12″	Cem.	621.55	
Main st. to Court Sq. ave.	200	12″	Cem.	309.67	
					931.22
Crane st., Franklin st., northerly.....	299	10″	Clay		331.87
Crosby st., Walnut st., westerly.....	321	10″	Clay		231.38
Cross st., Main to Willow st.....	388	18″	Clay	951.12	
Willow st., easterly.....	363	12″	Cem.	352.25	
					1,303.37
Crossett ave., Willow st., westerly.....	169	10″	Clay		259.82
Crystal ave., Belmont ave., easterly.....	251	15″	Clay		
	250	12″	Clay	24.07	
	298	10″	Clay		
*Dickinson st., westerly..	362	15″	Clay	650.64	
	372	12″	Clay		
					674.71
Cumberland st., Chestnut st., westerly.....	167	10″	Clay	125.29	
North Main to North st..	205	15″	Clay	300.96	
	238	12″	Clay	284.06	
					710.31

* Surface drainage only.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Cypress ave., Cypress st., northerly	360	12″	Cem.	$484.08	
	40	12″	Clay	23.78	
					$507.86
Cypress st., Conn. river to Garden brook in Ferry st	1,081	3′-4″x5′-0″	Brick	10,048.85	
*Connecticut river to Fulton st	385	4′-10″x7′-3″	Con.	3,890.53	
*Fulton to Main st	691	4′- 2″x6′-3″	Con.	6,470.80	
					20,410.18
Dale st., northerly from sewer 60 ft. south of Hubbard ave	203	10″	Clay	184.27	
Winthrop st., southerly	46	8″	Clay	13.08	
Winthrop st., northerly	123	10″	Clay	259.62	
William st., northerly	143	10″	Clay	288.91	
					745.88
Dartmouth st., St. James ave. to Yale st	973	3′-0″x4′-6″	Brick		8,247.06
Yale to Bowles st	295	2′-6″x3′-9″	Brick		
Dartmouth terrace, Worthington to Cornell st	499	20″	Clay		2,213.06
	357	18″	Clay		
	177	15″	Clay		
Davis court, Bridge st. to Harrison ave	450	12″	Clay		500.67
Daviston ave., Allen to West Alvord st	403	10″	Clay		
West Alvord to East Alvord st	400	10″	Clay		1,052.35
East Alvord st., southeasterly	299	10″	Clay		
Sumner ave., northerly	165	18″	Clay		
Dawes st., Bay st., southerly	229	15″	Clay		
	380	12″	Clay		207.36
	518	10″	Clay		
Dawson ave., White street, westerly	350	10″	Clay		118.35
Daytona st., Belmont to Sumner ave	524	12″	Clay		500.44
Demond ave., Fisk ave., westerly	510	12″	Clay		642.06
Plainfield st., easterly	403	12″	Clay		
Dexter st., Knox to Pine st.	300	15″	Clay	686.15	
	282	12″	Clay		
	202	10″	Clay	219.08	
					905.23

* Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Dickinson st., Mill st. to	35	4′-6″ cir.	Brick		
Sumner ave.	60	2′-1″x5′-0″	Con.		
	251	5′-0″ cir.	Brick		
	679	4′-0″ cir.	Brick	$44,606.56	
	*460	4′-10″x7′-3″	Brick		
	*869	4′-8″x7′-0″	Brick		
	*1,040	4′-4″x6′-6″	Brick		
	*996	4′-2″x6′-3″	Brick		
Sumner ave., southerly	1,379	2′-6″x3′-9″	Brick		
	324	2′-4″x3′-6″	Brick		
	434	2′-0″x3′-0″	Brick	8,806.81	
	312	1′-10″x2′-9″	Brick		
					$53,413.37
Division st., Plainfield st., westerly	300	18″	Clay		599.17
	101	15″	Clay		
Donald st., Birnie ave., easterly	315	10″	Clay		406.60
Dorchester st., St. James ave. to Amherst st.	364	12″	Clay		417.70
	238	10″	Clay		
Dorne st., Smith st., northerly	219	12″	Clay		182.12
Douglas st., B. & M. R. R. to North Main st. (see Rowland ave.)	....	....	....		....
North Main to Chestnut st.	424	4′-6″ cir.	Brick		4,805.19
	442	4′-0″ cir.	Brick		
Dresden st., State st., southerly	359	12″	Clay		25.14
	321	10″	Clay		
Dunmoreland st., Wilbraham road, southerly	301	15″	Clay		862.26
	302	12″	Clay		
	197	10″	Clay		
†**Dwight st.**, Sanford to State	258	2′-8″x4′-0″	Brick	1,571.86	
Sanford to Harrison ave.	253	20″	Clay		
	229	18″	Clay	1,441.27	
	199	15″	Clay		
Harrison ave., northerly	129	12″	Clay	319.96	
Hillman st., southerly	226	10″	Clay	257.25	
Hillman st., northerly	103	10″	Clay	388.28	
Worthington st., southerly	269	12″	Clay	433.91	
Worthington st., northerly	342	12″	Cem.	374.73	
					4,787.26
Dymon st., Walnut st., easterly	415	12″	Cem.		385.92
Eagle st., North Main to Chestnut st.	643	15″	Clay		....
Earl st., Bloomfield st., northerly	190	10″	Clay		157.32

* Elliptical. † Surface drainage only.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
East Alvord st., West Alvord st. to Daviston avenue	495	18″	Clay		$956.64
	598	12″	Clay		
East Court st., Dwight st., westerly	206	12″	Clay		303.10
	62	10″	Clay		
East Hooker st., North Main to North st.	444	10″	Cem.	$39.04	
	255	10″	Clay	....	
					39.04
Eastern ave., Watershops pond to Manhattan st.	1,164	24″	Clay	2,164.43	
Manhattan to Alden st.	338	20″	Clay	636.21	
Alden to Collins st.	231	12″	Clay	313.99	
Greene st., southerly	125	8″	Clay	69.58	
Greene to Ladd st.	38	15″	Clay	67.21	
Olive st., southerly	169	8″	Clay	167.87	
Lebanon to Olive st.	159	12″	Cem.	190.96	
Lebanon to King st.	194	12″	Cem.	351.89	
	55	12″	Clay	95.43	
King to Chapel st.	152	10″	Cem.	166.50	
	101	10″	Clay	149.70	
Pendleton ave., northerly	312	12″	Cem.	256.78	
Tyler st., northerly	286	12″	Cem.	181.30	
Quincy st., northerly	118	10″	Cem.	131.15	
Monroe st., southerly	28	12″	Cem.	45.09	
	210	8″	Clay	179.00	
Monroe st., northerly	29	12″	Cem.	51.50	
	128	8″	Clay	90.66	
					5,309.25
Eddywood ave., Sumner ave., northerly	328	10″	Clay		436.66
Edgemont st., State st., northerly	499	10″	Clay		510.70
	201	8″	Clay		
***Edgewood st.**, Acorn to Bay st.	1,001	8″	Clay		443.73
Edwards st., Chestnut st., easterly	551	12″	Cem.		404.88
Eldredge st., Belmont ave., southerly	266	10″	Clay		231.00
Eleanor road, White st., southerly	277	15″	Clay		671.88
	255	12″	Clay		
Elliott st., Salem st., southerly	610	15″	Cem.	730.48	
	243	12″	Cem.	341.99	
					1,072.47
Elm st., submerged outlet	191	24″	Wood	1,700.79	
	26	24″	C. Iron	359.80	
Conn. river to Water st.	385	3′-9″ cir.	Brick	10,759.40	
Water to Main st.	996	3′-8″x5′-6″	Brick		
					12,819.99

*Sanitary sewer.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Elmwood st., Main to Hanover st	300	18″	Clay		
	249	15″	Clay		$1,058.02
	299	12″	Clay		
Emery st., Boylston st., east and west	542	12″	Cem.		616.36
Essex street, Garden brook, westerly	418	15″	Cem.	$355.00	
Garden brook to Chestnut st	1,115	2′-2″x3′-3″	Brick	7,105.10	
	204	18″	Cem.	355.33	
					7,815.43
Essex st., I. O., Oak to Myrtle st	254	12″	Clay	662.25	
	426	10″	Clay		
Oak st., easterly	183	10″	Clay	248.23	
					910.48
Euclid ave., Belmont ave. to Dickinson st	389	12″	Clay	1,102.00	
	741	10″	Clay		
	77	8″	Clay	50.67	
*Dickinson st., westerly	350	15″	Clay	773.10	
	350	12″	Clay		
Dickinson st., easterly	275	10″	Clay	332.10	
					2,257.87
Everett st., Chestnut st. to brook	323	15″	Cem.	320.58	
brook to Cass st	926	15″	Clay	821.43	
Cass st., easterly	313	15″	Clay	617.45	
					1,759.46
Fairbanks place, Worthington st., northerly.	249	10″	Clay		220.66
Fairfield st., Litchfield to Garfield st	376	12″	Clay	....	
	556	10″	Clay	351.64	
					351.64
Fairmount st., Commonwealth ave. to Lawndale st	350	10″	Clay		173.17
Falmouth st., I. O., Parker st., westerly	204	18″	Clay		275.44
Farnsworth st., Hamburg st. to Connecticut ave.	530	20″	Clay	1,653.14	
	279	18″	Clay		
	341	12″	Clay	879.08	
	264	10″	Clay		
					2,532.22
Federal st., Worthington to Pearl st	567	12″	Cem.	740.92	
Summer st., southerly	274	10″	Clay	172.00	
					912.92

* Surface drainage only.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Ferry st., Main to Garden brook (see Cypress st.).	....	....	....	....	
Garden brook to Chestnut st.	1,168	2′-4″x3′-6″	Brick	$5,417.12	
Main st., easterly	*394	4′-2″x6′-3″	Con.	11,067.29	
	1,004	4′-9″ cir.	Con.		
					$16,484.41
Firglade ave., Sumner ave. to Spruceland st.	350	10″	Clay	84.44	
	203	8″	Clay		
Spruceland to Pineywoods avenue	447	10″	Clay	....	
	67	8″	Clay	....	
Pineywoods ave. to Washington boulevard	242	12″	Clay	395.64	
	176	10″	Clay		
					480.08
Fisk ave., Rowland to Worcester ave.	272	24″	Clay	1,073.11	
	275	20″	Clay		
	298	10″	Clay		
Wason ave., southerly	299	24″	Clay	1,216.81	
	294	20″	Clay		
	248	12″	Clay		
					2,289.92
Florence st., Pine st., easterly	824	15″	Cem.	2,227.38	
	651	12″	Cem.		
Hancock st., easterly	253	10″	Cem.	323.93	
	26	10″	Clay	31.11	
					2,582.42
Florentine gardens, Pineywoods ave., northerly	421	10″	Clay		22.83
Florida st., Worthington to Ingersoll Grove st.	555	15″	Clay	978.89	
	279	12″	Clay		
Worthington to St. James ave.	935	2′-2″x3′-3″	Brick	4,499.10	
St. James ave. to Bay st.	599	24″	Clay	1,832.21	
					7,310.20
Forest st., Belmont to Forest Park ave.	419	12″	Clay		651.93
	255	10″	Clay		
Forest Park ave., Fort Pleasant ave. to Garfield st.	1,081	24″	Clay	....	
	325	20″	Clay	1,217.48	
	562	18″	Clay		
Sumner ave., northerly	567	12″	Clay	123.15	
Sumner ave., southerly	66	10″	Clay	....	
	438	10″	Clay	379.92	
Pineywoods ave., northerly	380	10″	Clay	60.18	
					1,780.73

*Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Fort st., Main to Water st..	633	12″	Cem.		$633.43
Fort Pleasant ave., Mill	888	2′-4″x3′-6″	Brick }	$13,339.80	
river to Sumner ave....	1,825	2′-0″x3′-0″	Brick }		
Mill st., southerly.....	428	12″	Clay	293.42	
					13,633.22
Foster st., Knox st., easterly.....	511	12″	Clay	517.25	
	224	12″	Cem.	34.68	
					551.93
Franklin st., Garden brook sewer to Main st.....	434	18″	Cem.	593.13	
Garden brook sewer to	919	2′-2″x3′-3″	Con.	4,106.84	
Chestnut st.....	295	20″	Clay	652.82	
Chestnut to Charles st....	273	15″	Clay	303.37	
Charles st., easterly.....	670	12″	Clay	502.35	
Cass to Murray Hill ave.	621	12″	Clay }	1,051.76	
	330	10″	Clay }		
Nursery st., westerly....	207	15″	Clay	....	
Nursery to Genesee st....	107	15″	Clay	199.93	
	557	15″	Cem.	....	
	27	12″	Clay	57.66	
					7,467.86
Fremont st., Main to Water st.....	780	1′-6″x1′-7″	Brick	702.45	
Main st., westerly.....	656	12″	Cem.	692.92	
	30	12″	Clay	65.21	
					1,460.58
Fulton st., Cypress to Clinton st.....	944	12″	Cem.	826.66	
*Clinton to Sargeant st. (cost shown under Clinton st.).....	1,080	4′-8″x7′-0″	Brick	....	
	42	4′-10″x7′-3″	Brick	....	
Sargeant to John st.....	555	15″	Cem.	1,219.02	
John st., northerly.....	314	12″	Clay }	674.48	
	408	10″	Clay }		
					2,720.16
Garden brook sewer (see private ways).					
Gardner ave., Gardner st., northerly.....	151	8″	Clay		73.11
Gardner st., Hanover to Water st.....	655	2′-0″x3′-0″	Brick	1,995.23	
Water to Main st.....	226	12″	Clay }	423.58	
	199	10″	Clay }		
					2,418.81
Garfield st., Forest Park ave., easterly.....	556	15″	Clay }	967.16	
	514	12″	Clay }		
Belmont ave., westerly...	531	10″	Clay	329.87	
					1,297.03

*Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost
Genesee st., Franklin st., southerly	200	10″	Clay	$234.87
George st., Dexter st., southerly	409	10″	Clay	344.52
Girard ave., Bay to McKnight st	944	12″	Clay	863.45
Goodrich st., Liberty st., northerly	240	10″	Clay	460.87
Gordon st., Pasadena ave. to White st	618	15″	Clay	555.79
Governor st., Armory st. to Penacook ave	424	20″	Clay	1,276.19
	401	18″	Clay	
	402	15″	Clay	
	224	12″	Clay	
Grace st., Birnie ave., easterly	274	15″	Cem.	51.56
Grand st., Revere st., easterly	250	15″	Clay	
	252	12″	Clay	
Revere st., westerly	151	10″	Clay	30.85
Grant st., Magazine to Armory st	588	12″	Cem.	477.26
Granville st., Eastern ave. to Logan st	495	12″	Cem.	560.46
Gray's ave., Cypress ave., northerly	495	12″	Cem.	460.92
Greenacre sq. (north), Foster st., easterly	201	10″	Clay	173.46
Greenacre sq. (south), Foster st., easterly	246	10″	Clay	171.37
Greenbrier st., Larkspur to Trillium st	300	10″	Clay	322.19
Blaine to Trillium st	270	10″	Clay	
Greene st., Hancock to Eastern ave	610	18″	Cem.	1,897.68
	793	15″	Cem.	
Greene lane, Rimmon ave.,	744	12″	Clay	....
westerly and northerly.	143	10″	Clay	....
				....
Greenleaf st., Sumner ave. to Garfield st	527	12″	Clay	133.60
Greenwich st., Birnie ave., easterly	300	12″	Clay	467.79
	300	10″	Clay	
Greenwood st., Garden brook to Main st	386	12″	Cem.	2,210.55
	538	15″	Clay	
Garden brook, easterly	448	12″	Clay	
	117	10″	Clay	

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Grenada terrace, Dickinson to Ventura st.	220	18″	Clay	$828.48	
	310	15″	Clay		
Ventura st., easterly	309	12″	Clay	445.27	
	216	10″	Clay		
					$1,273.75
Grosvenor st., North to Chestnut st.	131	18″	Cem.		721.17
	648	15″	Cem.		
Grove st., North Main st., easterly	409	10″	Clay		442.65
North st., westerly	270	10″	Clay		
Groveland ave., Dickinson st. to town line	533	12″	Clay		525.19
	117	10″	Clay		
Grover st., Armory to Liberty st.	300	18″	Clay		
	303	15″	Clay		910.58
	298	12″	Clay		
	432	10″	Clay		
Hall st., Belmont ave. to Dickinson st.	500	12″	Clay	904.55	
	474	10″	Clay		
*Dickinson st., southerly	774	12″	Clay	698.29	
					1,602.84
Hamburg st., Springfield st., easterly	367	20″	Clay		1,067.20
	235	10″	Clay		
Hampden st., Water to Main st.	569	15″	Cem.		762.57
Hampden st., I. O., Chestnut st., easterly	285	12″	Cem.	187.28	
	174	12″	Clay	299.12	
Holly st., easterly	150	10″	Clay	165.26	
Pine st., westerly	200	12″	Clay	311.59	
	199	10″	Clay		
					963.25
Hampshire st., I. O., Oak st., westerly	300	12″	Clay	633.59	
	398	10″	Clay		
Oak st., easterly	250	12″	Cem.	206.20	
Pine st., westerly	469	10″	Clay	539.21	
Myrtle st., westerly	300	10″	Clay	295.05	
					1,674.05
Hancock st., Mill river to Central st.	920	12″	Clay	995.01	
Central to Walnut st.	218	18″	Cem.	1,874.54	
	1,343	15″	Cem.		
Walnut to Alden st.	122	12″	Cem.	88.00	
Lebanon to Alden st.	827	2′-0″x3′-0″	Brick	5,009.61	
Walnut (through Lebanon) to Quincy st.	1,852	3′-6″x5′-3″	Brick	21,668.02	
Quincy to State st.	913	3′-4″x5′-0″	Brick		
					29,635.18

* Surface drainage only.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Hanover st., York to Gardner st.	830	2'-2"x3'-3"	Brick		$2,650.26
Harriet st., North Main to North st.	250	15"	Clay	$377.17	
	207	12"	Clay		
North st., easterly	330	10"	Clay	172.92	
					550.09
Harrison ave., Main to Chestnut st.	600	15"	Cem.	874.11	
	250	8"	Clay	203.61	
					1,077.72
Harvard st., Yale st. to St. James ave.	316	18"	Clay	998.99	
	300	15"	Clay		
	291	12"	Cem.	266.84	
St. James ave. to Cornell st.	736	12"	Cem.	25.66	
					1,291.49
Hawley st., State st., southerly	110	12"	Cem.		
Monroe st., northerly	71	12"	Cem.		300.34
	330	10"	Clay		
Hawthorne st., Hancock st., westerly	441	12"	Cem.		480.95
Hayden ave., State st., northerly	335	12"	Clay		
	299	10"	Clay		59.41
	222	8"	Clay		
Healey ave., I. O., Worcester st., southerly	326	15"	Clay		270.40
Hebron st., North to Chestnut st.	663	12"	Clay		519.82
Hiawatha st., White st., westerly	383	10"	Clay		268.30
Hickory st., Mill river intercepting sewer to Alden st.	754	20"	Clay		
	228	18"	Clay		2,446.84
	184	15"	Clay		
	788	12"	Clay		
High st., Maple st. to Ingraham ave.	523	18"	Clay		
	567	15"	Clay	1,958.92	
	550	12"	Clay		
Ingraham ave., easterly	846	12"	Clay	987.71	
					2,946.63
Hillman st., Main to Dwight st.	350	15"	Clay		1,436.30
	380	12"	Clay		
Hillside place, Richelieu court, easterly	106	8"	Clay		....
Holly st., I. O., Worcester to Hampden st.	377	15"	Clay	419.11	

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Hampden st., southerly..	175	12″	Clay	$117.69	
					$536.80
Hollywood st., Commonwealth ave., easterly...	211	12″	Clay	445.87	
	241	10″	Clay		
Dickinson st., easterly...	174	10″	Clay	121.04	
					566.91
Holyoke st., Main st., westerly.....	734	12″	Cem.		987.24
Home st., Liberty st., westerly.....	424	10″	Clay	302.25	
Penacook ave., easterly..	246	10″	Clay	185.02	
					487.27
Homer st., State st., southerly.....	31	12″	Clay		186.81
	464	10″	Clay		
Horace st., Dickinson st., northerly.....	363	12″	Clay		783.12
	411	10″	Clay		
Howard st., Main st., westerly.....	344	15″	Clay	837.22	
	321	12″	Clay		
Water st., easterly.....	276	12″	Cem.	255.78	
	30	12″	Clay	43.40	
Water st., westerly.....	314	12″	Cem.	326.98	
	31	12″	Clay	43.47	
					1,506.85
Hubbard ave., Main st., easterly.....	257	15″	Clay		630.47
	321	12″	Clay		
Hunt terrace, Allen st., northerly.....	304	10″	Clay		....
Hunter place, State st., northerly.....	350	12″	Clay		602.72
	313	10″	Clay		
Huntington st., Birnie ave., easterly.....	300	12″	Clay		441.98
	300	10″	Clay		
Hyde ave., Fisk ave. to Plainfield st.....	301	15″	Clay		712.99
	300	12″	Clay		
	219	10″	Clay		
Ingersoll grove, Worthington st., northerly.....	782	12″	Cem.	1,038.85	
	218	8″	Clay		
Florida st., easterly.....	146	10″	Clay	90.97	
Bowdoin st., easterly....	132	10″	Clay	106.53	
					1,236.35
Ionia st., State st., northerly	720	10″	Clay		445.92
Irvington st., Sumner ave. to Morningside Park...	300	12″	Clay		201.07
	400	10″	Clay		
James st., Cedar st., northerly.....	289	15″	Cem.		924.38
	534	12″	Cem.		

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Jefferson ave., North Main	299	20″	Clay		
to Chestnut st.	299	18″	Clay	$1,663.86	
See private ways also.	276	15″	Clay		
	60	12″	Clay		
	414	12″	Cem.	492.50	
	78	6″	Clay	37.89	
					$2,194.25
John st., Fulton to Plainfield st.	652	12″	Cem.		420.18
Johnson st., Dickinson st. to Pasadena ave.	1,964	18″	Clay		3,756.87
Johnson st., I. O., Main to	500	20″	Clay		
South st.	463	18″	Clay		1,254.26
Keith st., Belmont ave. to	551	12″	Clay		
Dickinson st.	551	10″	Clay	1,106.40	
*Dickinson st., southerly.	350	15″	Clay		
	301	12″	Clay	823.06	
	186	10″	Clay		
					1,929.46
Kensington ave., Oakland	451	18″	Clay		
to Earl st.	402	15″	Clay		2,008.61
Earl st. to Pasadena ave.	567	12″	Clay		
	260	10″	Clay		
Kenwood park, Belmont	130	12″	Clay		
ave., northerly.	1,127	10″	Clay		139.96
Kenwood terrace, Belmont	218	12″	Clay		
to Sumner ave.	328	10″	Clay		463.91
Kibbe Ave., Summer to Worthington st.	260	18″	Clay		552.92
†**Kibbe Hollow**, northerly of Worthington st.	447	24″	Clay		. . . .
Kimberly ave., White st.,	250	12″	Clay		
northerly.	282	10″	Clay		804.80
Rupert st., northerly. . . .	272	12″	Clay		
King st., Walnut to Han-	504	15″	Cem.		
cock st.	441	12″	Cem.	921.37	
Hancock to Logan st.	311	20″	Clay		
	399	18″	Clay	2,650.91	
	686	15″	Clay		
	238	12″	Clay		
	239	10″	Clay	701.29	
†Westford to Wilbraham ave.	427	10″	Clay	321.81	
Westford ave., easterly. . .	225	10″	Clay	197.13	
					4,792.51
Knox st., Mill river to Windsor st.	1,303	24″	Clay		3,132.56

* Surface drainage only.
† Sanitary sewer

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Ladd st., Eastern ave. to	243	15″	Clay		
Logan st.	304	12″	Clay		$424.92
Lafayette st., St. James	582	12″	Clay		
ave. to Amherst st.	21	10″	Clay		545.34
Larkspur st., White st.,	299	15″	Clay		
easterly	304	12″	Clay		484.95
	101	10″	Clay		
Laurel st., Conn. river to					
Plainfield st.	888	18″	Cem.	$2,303.07	
	60	18″	Clay	282.48	
	20	18″	Clay	44.62	
					2,630.17
Laverne ave., Bellevue to					
Marengo ave.	211	10″	Clay		....
Lebanon st. (see Hancock)	....	3′-6″x5′-3″	Brick	....	
Hancock st., westerly	158	2′-0″x3′-0″	Brick	1,495.77	
Hancock to Eastern ave.	606	18″	Cem.	1,842.70	
	816	15″	Cem.		
					3,338.47
Ledyard st., Armory st.,					
northwesterly	478	10″	Clay		321.39
Leete st., Longhill st., east-	431	18″	Clay		
erly	270	15″	Clay		1,533.79
	150	10″	Clay		
Lenox st., Sumner ave.,					
southerly	465	10″	Clay		53.58
Lester st., Sumner ave. to	286	12″	Clay		324.11
Vermont st.	279	10″	Clay		
Lexington ave., Chestnut					
to Massasoit st.	668	12″	Clay	546.52	
Massasoit st., easterly	145	2′-0″x3′-0″	Con.	594.63	
					1,141.15
Leyfred terrace, Belmont	300	18″	Clay		957.30
ave., northerly	317	15″	Clay		
Liberty st., Garden brook					
to Main st.	118	12″	Clay	179.19	
Garden brook to Chestnut	70	1′-6″x1′-7″	Brick		
st	172	12″	Cem.		
	644	20″	Clay	2,458.61	
	325	15″	Clay		
	184	12″	Clay		
Chestnut to Webster st.	784	2′- 4″x3′-6″	Brick		
	659	1′-10″x2′-9″	Brick	9,123.49	
	684	2′- 2″x3′-3″	Brick		
Webster to Armory st.	366	3′- 0″x4′-6″	Brick	5,383.15	
	1,282	2′- 2″x3′-3″	Brick		
	317	1′-10″x2′-9″	Brick	2,539.81	
	449	2′- 2″x3′-3″	Brick		

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Armory to Roy st.....	1,194	24″	Clay		
	1,103	18″	Clay	$6,390.09	
	1,447	15″	Clay		
					$26,074.34
Lillian st., Oak st., easterly	297	12″	Clay		232.47
Lincoln st., Magazine to Federal st.....	823	12″	Clay		676.54
Linden st., Chestnut to	470	18″	Cem.		
Cass st.....	862	15″	Cem.		1,318.15
Litchfield st., Belmont ave. to Fairfield st.....	159	15″	Clay	335.11	
Garfield st., northerly....	69	6″	Clay	7.10	
					342.21
Locust st., York to Mill st.	84	3′-0″x4′- 6″	Brick		
	364	2′-9″x4′-1½″	Brick		6,804.18
	686	2′-6″x3′- 9″	Brick		
Logan st., Collins st., southerly.....	97	10″	Clay	109.36	
Collins to Ladd st.....	183	10″	Clay	140.36	
Ladd st., northerly.....	88	10″	Clay	67.64	
Granville st., northerly...	200	10″	Clay	169.04	
					486.40
Lombard st., Water st., easterly.....	500	12″	Cem.		376.60
Longfellow terrace, White	246	12″	Clay		
st., westerly.....	200	10″	Clay	290.03	
Southerly towards Belmont ave.....	229	10″	Clay	153.84	
					443.87
Longhill st., submerged	26	18″	Clay		
outlet.....	290	18″	W'd	5,387.70	
	28	18″	C-ir.		
Conn. river to Washington boulevard.....	1,310	24″	Clay	2,086.09	
(See Washington boulevard)	346	2′-4″x3′-6″	Brick	1,936.97	
Washington ave., northerly	399	15″	Clay		
	512	12″	Clay	1,027.66	
	160	10″	Clay		
Sumner ave., southerly...	356	8″	Clay	386.61	
Warner pl. to Sumner ave.	423	10″	Clay	379.51	
Main st. to Warner place.	136	24″	Clay		
	265	18″	Clay		
	350	15″	Clay	2,608.25	
	400	12″	Clay		
	240	10″	Clay		
	90	2′-0″x3′-0″	Con.	447.63	
					14,260.42

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Loring st., Water st., easterly	607	12″	Cem.	$733.41	
	40	12″	Clay	48.34	
					$781.75
Lowell st., Conn. river to Plainfield st	305	18″	Clay		
	396	15″	Clay		1,063.24
	466	12″	Clay		
	283	10″	Clay		
Lyman st., Main to Chestnut st	1,335	2′-0″x3′-0″	Brick	6,113.12	
Chestnut to Spring st	418	15″	Clay	1,793.76	
	302	15″	Cem.	695.83	
					8,602.71
Lyndale st., Belmont ave., northerly	350	15″	Clay		
	300	12″	Clay		952.60
	324	10″	Clay		
Lyons st., I. O., Main st., northerly	261	18″	Clay		389.58
Madison ave., Central st., northerly	250	12″	Clay		737.57
	287	10″	Clay		
Magazine st., Worthington to Lincoln st	682	18″	Cem.		1,211.05
	249	15″	Cem.		
Magnolia terrace, east side, Sumner to Spruceland ave	620	10″	Clay		
west side, Sumner to Spruceland ave	621	10″	Clay	1,233.46	
overflow connection between east and west side	62	8″	Clay	26.00	
Washington to Spruceland ave	362	24″	Clay		
	602	12″	Clay	21.08	
					1,280.54
Main st., Pecousic ave. to Longhill st	191	2′-4″x3′-6″	Con.	1,077.51	
Mill river to Mill st	258	10″	Clay	342.25	
Locust to Mill st	385	15″	Clay	1,926.01	
	394	12″	Clay		
Mill st., southerly	55	15″	Cem.	96.72	
York st. to B. & A. R. R.	56	7′-0″ cir.	Brick		
	1,772	6′-6″ cir.	Brick	20,812.99	
	906	5′-6″ cir.	Brick		
	990	5′-0″ cir.	Brick		
	1,624	3′-4″x5′-0″	Brick	34,453.56	
	864	2′-4″x3′-6″	Brick		
	263	12″	Clay	164.82	

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Cypress to Emery st.....	298	15″	Clay	$1,210.56	
	270	12″	Clay		
Emery st., southerly.....	278	12″	Cem.	389.20	
Emery to Sargeant st....	341	24″	Clay		
	442	20″	Clay	2,539.81	
	480	18″	Clay		
	186	15″	Clay		
					$63,013.43
Main st., I. O., Chicopee river to Pine st.....	2,321	2′-4″x3′-6″	Brick	7,636.81	
Pine to Cedar st.....	500	18″	Cem.	870.78	
	185	15″	Cem.		
	103	12″	Clay	128.49	
Cedar to Lyons st.....	1,110	2′-0″x3′-0″	Brick	5,068.28	
Chicopee river through private land and Main st. to Beaudry st.....	699	18″	Clay		
	232	15″	Clay	1,530.17	
	212	10″	Clay		
Parker st., westerly.....	409	12″	Clay	448.86	
Lyons st., easterly.....	205	24″	Clay		
	245	18″	Clay	1,334.58	
	129	12″	Clay		
					17,017.97
Malden st., Allen st., southerly.....	542	15″	Clay		
	291	12″	Clay		43.99
	494	10″	Clay		
Manhattan st., Eastern ave. to Walnut st.....	290	15″	Clay		
	645	12″	Clay		862.70
	205	10″	Clay		
Maple st., State to Temple st.....	315	18″	Clay	675.51	
	....	....	....	51.55	
Park to High st.....	225	18″	Clay	505.21	
Union st., southerly.....	515	18″	Cem.	959.13	
	135	12″	Cem.		
Central st., southerly....	33	18″	Cem.	160.95	
	388	12″	Cem.		
	784	12″	Clay	1,289.58	
Pine st., northerly.....	195	15″	Cem.	1,093.44	
	522	12″	Cem.		
					4,735.37
Mapledell st., State to Burr st.....	337	15″	Clay		
	300	12″	Clay		133.34
	388	10″	Clay		
Maplewood terrace, Fort Pleasant ave., easterly.	682	15″	Clay		
	329	12″	Clay		22.21
	178	10″	Clay		

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Marble st., Main st., easterly	222	18″	Cem.		
	586	15″	Cem.		$1,248.12
	242	12″	Cem.		
Marengo park, Belmont ave., easterly	443	15″	Clay		
	612	12″	Clay		117.62
	778	10″	Clay		
Margaret st., Water st., westerly	520	12″	Cem.	$540.89	
Water st., easterly	825	12″	Cem.	855.32	
	30	12″	Clay	31.41	
					1,427.62
Marion st., Bay st., southerly	833	12″	Clay	915.66	
Chapin st., easterly	94	10″	Clay	25.89	
	319	8″	Clay		
					941.55
Market st., State st., northerly	119	10″	Clay	....	
Sanford st., southerly	200	12″	Clay	412.04	
Sanford st. to Harrison ave.	301	15″	Clay	1,197.72	
	350	12″	Clay		
Harrison ave., southerly	154	12″	Cem.	....	
					1,609.76
Marlboro ave., State st. to Wilbraham road	300	12″	Clay		555.21
	449	10″	Clay		
Marlborough st., Bristol st., easterly	160	10″	Clay		101.12
Marshall place (see Melrose st.).					
Mason place, Dickinson st., southerly	200	12″	Clay		433.02
	276	10″	Clay		
Mason st., State to Pease st.	349	15″	Clay		746.99
	359	12″	Clay		
Massachusetts ave., Wilbraham road, southerly	300	15″	Clay		
	300	12″	Clay	1,056.92	
	227	10″	Clay		
Westford circle, northerly				47.67	
*Westford circle, southerly	160	12″	Clay	218.35	
					1,322.94
Massasoit place, Massasoit st., easterly	381	12″	Clay		....

* Sanitary sewer.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Massasoit st., Carew st., northerly	709	12″	Cem.	$579.69	
	131	10″	Clay	124.62	
Lexington ave., southerly	300	12″	Clay	366.86	
	298	10″	Clay		
Montmorenci st. to Lexington ave.	354	2′-2″x3′-3″	Con.	1,468.20	
Montmorenci st., northerly	152	10″	Clay	113.14	
Pratt st., southerly	149	10″	Clay	218.09	
					$2,870.60
Mattoon st., Chestnut to Salem st.	356	1′-4″x2′-0″	Brick		778.21
	87	15″	Cem.		
Maynard st., State st. to Shattuck ave.	431	15″	Clay	670.82	
	400	12″	Clay		
*Shattuck ave., northerly.	1,029	10″	Clay	705.78	
					1,376.60
McKnight st., Catharine to Sherman st.	255	15″	Cem.	421.42	
	30	15″	Clay	56.78	
Catharine to Bowles st.	141	10″	Cem.	67.27	
	26	10″	Clay	75.32	
Bowles st. to Girard ave.	119	12″	Cem.	81.85	
	263	10″	Clay	233.51	
					936.15
Mechanic st., Water st., westerly	302	12″	Cem.	205.25	
	20	8″	Clay	72.99	
					278.24
Medford st., Birnie ave., easterly	390	12″	Clay		367.29
	183	10″	Clay		
Melrose st., sewer between Hickory and Melrose st.	429	18″	Clay		
Eastern ave. to Walnut st.	263	15″	Clay		
	558	10″	Clay		
Marshall place, Eastern ave. to Walnut st.	415	10″	Clay		1,577.08
	169	8″	Clay		
Cottage ave., Melrose st. to Marshall place	74	12″	Clay		
Merrick ave., King st., southerly	275	12″	Cem.	48.50	
	24	12″	Clay	29.26	
					77.76
Merwin st., North Main to Chestnut st.	774	15″	Clay		....

*Sanitary sewer.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Middlesex st., Wilbraham road to Marlborough st.	296	15″	Clay		
	304	12″	Clay		$732.65
	235	10″	Clay		
Mill river, intercepting sewer, Mill river to Locust st.	370	5′-3″ cir.	Brick	$6,066.64	
	691	4′-0″ cir.	Brick		
Locust to Hickory st.	587	4′-0″ cir.	Brick		
	131	3′-6″x5′-3″	Brick		
	1,743	5′-9″ cir.	Brick	42,706.00	
	779	4′-3″ cir.	Brick		
	1,611	3′-3″ cir.	Brick		
*in Mill and Hickory sts.	833	2′-2″x3′-3″	Brick	9,355.23	
*Hickory st. to Gunn square brook by northerly shore of Watershops pond.	4,495	2′-2″x3′-3″	Brick	45,545.71	
					103,673.58
Mill st., Main st., easterly.	236	8″	Cem.	75.45	
Locust to Pine st.	943	2′-6″x3′-9″	Brick	4,764.79	
Knox to Maple st.	352	18″	Clay	668.25	
Dickinson st., easterly	325	24″	Clay	651.69	
					6,160.17
Monmouth st., Dorchester st., northerly and easterly	199	12″	Clay	218.15	
	171	10″	Clay	121.75	
Yale st., westerly	64	12″	Clay	45.95	
	278	10″	Clay	281.47	
Berkeley st., northwesterly	350	12″	Clay	235.62	
					902.94
Monroe st., Hancock st. to Eastern ave.	611	18″	Cem.		
	789	15″	Cem.		1,983.29
Eastern ave. to Colton st.	316	12″	Cem.		
Monson ave., Greene st., northerly	200	8″	Clay		....
Montmorenci st., Chestnut to Massasoit st.	64	12″	Clay	74.82	
	612	2′-10″x4′-5″	Con.	2,725.07	
					2,799.89
Montpelier st., Main to Niagara st.	297	24″	Clay		1,149.00
Montrose st., State to Burr st.	338	15″	Clay		
	217	12″	Clay		75.74
	329	10″	Clay		

*Elliptical.

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SEWER SYSTEM.—*Continnud.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Moore st., Plainfield st.,	299	12″	Clay		$600.30
westerly	435	10″	Clay		
Mooreland ave., Carew st.,	601	18″	Clay		
northerly to Van Horn	301	15″	Clay		1,467.66
ave	299	12″	Clay		
	212	10″	Clay		
Morgan st., Garden brook	252	12″	Cem.	$199.08	
to Main st	25	18″	Cem.	48.07	
Garden brook to North st.	634	18″	Clay	1,460.31	
					1,707.46
Morningside Park, White					
st., easterly	392	15″	Clay		460.81
Morris st., Main st., east-	915	2′-0″x3′-0″	Brick	2,942.83	
erly	496	12″	Cem.	359.07	
					3,301.90
Mountainview st., Forest	297	12″	Clay		28.19
Park ave., easterly	297	10″	Clay		
Mulberry st., Maple st.,	426	15″	Clay		
easterly and northerly	270	12″	Clay	885.41	
	629	12″	Cem.	595.59	
	246	10″	Clay	233.59	
west from Ridgewood ter-					
race	144	15″	Clay	....	
					1,714.59
Murray Hill ave., Liberty					
st., northerly	....	....	Clay		96.24
Myrtle st., Card Factory	107	10″	Clay		69.76
Pond brook, northerly	237	8″	Clay		
Myrtle st., I. O., Main to					
Worcester st	377	24″	Clay	1,003.44	
Worcester st., southerly	378	10″	Clay	355.34	
Berkshire st., southerly	180	10″	Clay	189.63	
Hampshire to Essex st	275	10″	Clay	310.44	
					1,858.85
Nelson ave., Greene st.,					
northerly	90	12″	Cem.	27.96	
Lebanon to King st	188	10″	Cem.	126.54	
	67	10″	Clay	93.63	
					248.13
Nelson st., Nursery st.,					
easterly	308	24″	Clay		....
New st., E. Court st., north-	237	12″	Cem.	213.02	
erly	33	8″	Clay	14.18	
Dwight st., westerly	164	10″	Clay	203.79	
					430.99
Newbury st., Carew st. to					
Sherman ave	1,070	10″	Clay		1,088.24

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Newland st., Plainfield st., westerly	350	18″	Clay		
	349	15″	Clay		$1,735.99
	251	12″	Clay		
Newman st., Knox st., westerly	175	12″	Cem.		11.49
Niagara st., Montpelier to Saratoga st.	220	18″	Clay		539.50
Montpelier to Oswego st.	146	18″	Clay		358.02
Noble st., North Main to Chestnut st.	514	15″	Clay		1,074.99
Noel ave., Mill st., southerly	204	20″	Clay		
	146	18″	Clay		569.64
Norfolk st., Wilbraham rd., southerly	300	15″	Clay		
	300	12″	Clay	$566.08	
	229	10″	Clay	155.85	
					721.93
North st., Ferry st., northerly	148	10″	Clay	223.34	
Carew st., northerly	190	8″	Cem.	84.88	
Church to Grosvenor st.	68	18″	Cem.	157.13	
Morgan to Ringgold st.	198	18″	Cem.	356.84	
Osgood to Hebron st.	130	18″	Clay		
	165	10″	Clay	426.85	
Bancroft st. to Brookline ave.	302	18″	Clay	411.55	
Bancroft st., northerly	153	12″	Cem.		
	64	12″	Clay	217.15	
Jefferson ave., northerly	233	8″	Clay	197.21	
Calhoun st., northerly	256	8″	Clay	48.13	
Waverly to Grove st.	362	12″	Clay	302.86	
Harriet st., southerly	86	8″	Clay	....	
Harriet st., northerly	150	10″	Clay	106.43	
					2,532.37
Northampton ave., Wilbraham road, southerly	1,101	12″	Clay	877.41	
Gunn square, northerly	126	10″	Clay	103.71	
Gunn square to King st.	249	12″	Clay		
	202	10″	Clay	325.24	
					1,306.42
North Church ave., Cook's ave., easterly	209	10″	Cem.		
Cook's ave., westerly (for cost see Cook's ave.)	133	10″	Cem.		....
No. Main st., Morgan st., southerly	232	8″	Clay	232.92	
Morgan st., northerly	173	8″	Clay	90.69	

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Osgood st., southerly....	199	10″	Clay	$649.04	
Arch to Osgood st.....	730	15″	Cem.	713.66	
*Arch st. to Jefferson ave..	185	2′-2″x3′-3″	Brick	974.27	
Jefferson ave. to Grove st.	359	24″	Clay		
	420	20″	Clay	2,568.01	
	285	15″	Clay		
Grove st., northerly.....	170	12″	Clay	226.45	
Douglas to Harriet st....	551	1′-8″x2′-6″	Brick	1,874.35	
Harriet to Waverly st....	250	24″	Clay	470.75	
Douglas to Eagle st.....	326	2′-4″x3′-6″	Brick	1,840.24	
	272	1′-10″x2′-9″	Brick		
Eagle to Walter st.....	296	24″	Clay	952.02	
Wason ave. to Walter st..	215	2′-0″x3′-0″	Brick	860.00	
	349	1′-8″x2′-6″	Con.	1,577.72	
	155	24″	Clay	1,291.96	
	204	15″	Clay		
Wason ave., northerly...	600	12″	Clay	462.77	
Chicopee line, southerly..	106	15″	Clay	184.06	
	201	15″	Clay	812.39	
	199	12″	Clay		
					$15,781.30
Norwood st., Main to Hanover st.....	1,051	12″	Cem.		1,156.64
Nursery st., Liberty to Franklin st.....	694	2′-8″ cir.	Brick	2,284.52	
Franklin st., northerly...	587	2′-8″ cir.	Brick	....	
					2,284.52
Oak st., Union to State st..	741	2′-0″x3′-0″	Con.	3,092.11	
Union to Tyler st.....	220	18″	Clay	752.00	
	268	15″	Clay		
Walnut to Tyler st.....	177	18″	Clay	339.99	
					4,184.10
Oak st., I. O., Chicopee river to Main st.....	684	4′-0″ cir.	Con.	4,353.51	
north from Main st.....	179	15″	Cem.	637.00	
	171	12″	Cem.		
Main st., southerly.....	590	2′-2″x3′-3″	Brick	2,345.84	
brick sewer to Hampshire st.....	797	24″	Clay	1,652.79	
Hampshire st., southerly.	285	18″	Clay	1,562.43	
	300	15″	Clay		
	400	12″	Clay		
					10,551.57
Oak Grove ave., State to Center st.....	349	18″	Clay		
	327	15″	Clay	....	
	254	12″	Clay		
Center st., northerly.....	621	10″	Clay	256.98	

* Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Bay st., southerly.....	350	18″	Clay		
	350	15″	Clay	$1,298.80	
	301	12″	Clay		
	325	10″	Clay		
				———	$1,555.78
Oakland st., Belmont ave., southerly.....	311	10″	Clay	330.77	
Belmont ave. to Dickinson st.....	895	24″	Clay	2,218.71	
Dickinson to Orange st.	254	24″	Clay		
	350	18″	Clay	1,619.20	
	170	12″	Clay		
	218	8″	Clay	110.79	
Allen to Orange st.....	625	18″	Clay		
	304	15″	Clay	1,428.06	
	193	12″	Clay		
	404	10″	Clay		
Sumner ave. to Garfield st.....	280	12″	Clay	468.60	
	221	10″	Clay		
				———	6,176.13
Olive st., Eastern ave., to Logan st.....	540	10″	Clay		439.17
Orange st., Oakland st., easterly.....	583	8″	Clay		
White st., westerly.....	381	12″	Clay		1,240.87
	649	10″	Clay		
White st., easterly.....	924	10″	Clay		
Orchard st., Plainfield st., westerly.....	325	20″	Clay		
	301	15″	Clay		1,015.67
	297	12″	Clay		
	494	10″	Clay		
Orlando st., Sumner ave., southerly.....	127	12″	Clay	310.17	
	240	10″	Clay		
Belmont ave., northerly..	246	12″	Clay	396.28	
	193	10″	Clay		
				———	706.45
Orleans court, Orleans st., westerly.....	205	8″	Clay		....
Orleans st., Union st., northerly.....	39	12″	Cem.	36.23	
	310	12″	Clay	456.19	
	330	10″	Clay		
Tyler st., northerly.....	188	10″	Cem.	187.74	
Pendleton ave., northerly.	231	12″	Cem.	327.73	
				———	1,007.89
Ormond st., Belmont to Sumner ave.....	275	10″	Clay		252.85

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Osgood st., Garden brook to Main st.	257	15″	Clay	$547.77	
Garden brook to North st.	340	24″	Clay	2,055.99	
	340	20″	Clay		
					$2,603.76
Oswego st., Niagara st., easterly	256	15″	Clay		
	259	12″	Clay		1,309.66
	246	10″	Clay		
Oxford st., Riverview terrace, northerly	63	12″	Clay	....	
	227	12″	Clay	512.94	
	291	10″	Clay		
					512.94
Ozark st., Grand ave., southerly	456	10″	Clay		61.80
***Page boulevard**, St. James ave. to Stevens st.	4,817	24″	Clay		21,106.20
	1,412	20″	Clay		
Palmer ave., Locust st., easterly	351	18″	Clay	1,190.78	
	337	15″	Clay		
	14	12″	Cem.	....	
					1,190.78
Park st., Main to Willow st.	395	24″	Clay	1,609.31	
Willow to Maple st.	200	24″	Clay	1,431.05	
	557	18″	Clay		
					3,040.36
Parker st., I. O., Chicopee river to Main st.	32	24″	Clay	261.81	
	221	12″	Clay		
Main st., southerly	1,098	24″	Clay	2,486.05	
†Loon pond to B.&A.R.R.	1,227	12″	Clay	1,266.36	
					4,014.22
Parkside ave., Carew st. to Van Horn ave.	350	18″	Clay		
	350	15″	Clay		1,180.15
	351	12″	Clay		
	300	10″	Clay		
Parkwood st., Sumner ave., southerly	215	12″	Clay		70.08
	204	10″	Clay		
Pasadena st., White st., southerly	156	12″	Clay		325.65
	291	10″	Clay		
Pasco road, I. O., Essex st., southerly	724	10″	Clay		607.80
Patton st., Garden brook to Main st.	214	10″	Clay	173.73	

*Sanitary sewer.
†Surface drainage only.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Garden brook, easterly...	352	18″	Clay		
	349	15″	Clay	$1,572.67	
	537	12″	Clay		
					$1,746.40
Peabody lane, Willow st., westerly.....	292	10″	Clay		332.17
Pearl st., Chestnut to Spring st.....	514	24″	Clay		
	447	20″	Clay	1,792.62	
Spring st., easterly.....	190	1′-6″ cir.	Brick	96.16	
					1,888.78
Pease st., Catharine to Bowles st.....	250	12″	Clay		15.05
Pecousic ave., Mill river to Main st.....	352	2′-8″x4′-0″	Con.		2,155.17
Penacook ave., Governor to Home st.....	106	12″	Clay		76.42
Pendleton ave., Walnut to Hancock st.....	287	18″	Cem.		
	524	15″	Cem.	1,663.94	
	429	12″	Cem.		
Hancock st. to Eastern ave.....	600	18″	Cem.		
	793	15″	Cem.	1,494.53	
					3,158.47
Phoenix st., Liberty st., easterly.....	236	18″	Clay		
	250	15″	Clay		840.32
	89	10″	Clay		
Pine st., Mill to Cedar st..	740	2′- 6″x3′-9″	Brick		
	1,529	3′- 6″x5′-3″	Brick	13,659.54	
	500	3′-10″x5′-9″	Brick		
Cedar to Walnut st.....	62	18″	Cem.		
	884	15″	Cem.	1,781.65	
	631	12″	Cem.		
					15,441.19
Pine st., I. O., Main st., easterly.....	1,896	24″	Clay		4,170.03
Pine st. court, Pine st., easterly.....	348	10″	Cem.		266.39
Pineywoods ave., Washington blvd., northeasterly.....	334	15″	Clay		
	263	12″	Clay	....	
Magnolia terrace, westerly	350	10″	Clay	25.62	
Magnolia terrace to Washington road.....	343	20″	Clay		
	404	12″	Clay	....	
Washington road to Forest Park ave.....	341	12″	Clay	....	
					25.62

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Plainfield st., Sargeant to Fulton st.	414	18″	Clay		
	537	15″	Clay	$2,525.13	
	456	12″	Clay		
	244	10″	Clay		
Washburn to West st.	154	12″	Clay	427.50	
	203	10″	Clay		
Washburn to Division st.	331	2′-8″x4′-0″	Brick	1,555.00	
	303	2′-6″x3′-9″	Brick	2,367.93	
	287	2′-4″x3′-6″	Brick	4,518.58	
	294	2′-2″x3′-3″	Brick		
	290	24″	Clay	1,028.46	
Rowland to Division st.	648	2′-2″x3′-3″	Con.	3,402.82	
	299	24″	Clay	1,419.29	
	208	15″	Clay		
Rowland st. to Talcott ave.	288	24″	Clay	1,208.95	
	299	20″	Clay		
Talcott ave., northerly	216	10″	Clay	158.46	
Wason to Demond ave.	304	24″	Clay		
	249	20″	Clay	1,277.68	
	53	18″	Clay		
					$19,889.80
Pleasant st., Bay st., southerly	296	12″	Cem.		249.74
Plymouth st., Fulton st., easterly	375	10″	Clay		196.59
Pomona st., Sumner ave., northerly	580	12″	Clay	459.94	
	297	10″	Clay	204.92	
					664.86
Portland st., Birnie ave., easterly	251	12″	Clay		351.35
	224	10″	Clay		
Portsmouth st.	212	12″	Clay		253.65
Pratt st., Chestnut to Marvin st.	350	15″	Clay		869.53
	299	12″	Clay		
Prescott st., Belmont ave., northerly	340	10″	Clay		195.22
Prince st., King to Lebanon st.	329	12″	Cem.		333.15
Princeton st., Bay to Amherst st.	103	18″	Cem.	289.08	
	689	18″	Clay	724.15	
	151	15″	Clay	177.72	
Yale to Vassar st.	665	12″	Cem.	....	
St. James ave. to Cornell st.	298	12″	Cem.	195.52	
					1,386.47

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Private ways and private lands:					
Armory Hill sewer from Armory st., through private grounds east of Armory st. to Worthington st.	150	2′-5″x3′-7½″	Brick		$5,318.04
	900	2′-8″x4′- 0″	Brick		
	249	2′-1″x3′-1½″	Brick		
Card-factory Pond, Woodworth ave., westerly between High and State sts.	751	12″	Cem.	$408.75	
in front and around High school	492	24″	Clay	848.26	
High school to State st.	88	24″	Clay	192.35	
					1,449.36
in front and around High School of Commerce	35	15″	Clay		....
Cemetery brook, Morris st., easterly, north of Central st.	174	24″	Clay		569.59
Chester to Hancock st.	218	8″	Clay		....
Garden brook sewer, north from Liberty st. to B. & M. R. R. via Arch st. about 300 feet east of Main st.	2,936	5′-6″ cir.	Brick	47,577.34	
	766	5′-0″ cir.	Brick		
	1,303	4′-6″ cir.	Brick		
	236	3′-0″x4′-6″	Brick		
*Gunn square brook sewer, from Hickory st., through private land to Albemarle st.	1,585	15″	Clay		1,401.20
Worthington st., northeasterly to Lyman st., then via Railroad land to Armory st.	3,274	4′-7½″ cir.	Brick	29,761.32	
	952	4′-1″ cir.	Brick		
					77,338.66
East Springfield sewer, northerly and easterly from Albany st. through private land to Chicopee road	1,920	3′-9″ cir.	Con.	16,541.83	
	760	2′-6″ cir.	Con.		
	160	2′-10″x4′-3″ Elliptical	Con.		
Hickory to Melrose st. (see Melrose st.)	....	18″	Clay		....
Jefferson ave., passageway in rear of lots on south side	135	2′-0″x3′-0″	Brick	....	
	518	12″	Cem.	364.84	
					364.84

* Sanitary sewer.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Main to Dale st., between Hubbard ave. and William st.	655	12″	Cem.		$441.92
Passageway, Ferry to Liberty st., 80 ft. east of Main st.	210	12″	Clay		402.70
Potter place, State st., northerly	396	15″	Clay		
	301	12″	Clay		....
	274	10″	Clay		
Sewer in ave. Hampden st. southerly, near Water st.	111	12″	Clay		147.14
Springfield st. and Glenwood, via Atwater Glen	677	3′-6″ cir.	Brick		
	598	3′-3″ cir.	Brick		
	389	4′-3″ cir.	Brick		
	1,292	3′-0″ cir.	Brick	$14,614.89	
	40	2′-0″ cir.	Brick		
	16	2′-10″x4′-3″	Brick		
	1,294	24″	Clay	3,889.98	
					18,504.87
Prospect st., Chestnut to Massasoit st.	218	18″	Clay		
	199	15″	Clay	623.53	
	196	12″	Clay		
Massasoit st., easterly	325	12″	Clay	802.39	
	423	10″	Clay		
					1,425.92
Pynchon st.	950	2′-0″x3′-0″	Brick		3,108.02
Quebec st., I. O., Lyons st., easterly	209	15″	Clay		402.82
Queen st., Walnut to Hancock st.	634	12″	Cem.		634.22
Quincy st., Oak to Stebbins st.	860	12″	Cem.	651.15	
Hancock to Stebbins st.	522	12″	Cem.	549.58	
Hancock st. to Eastern ave.	637	18″	Cem.	1,766.39	
	765	15″	Cem.		
Colton st. to Eastern ave.	208	10″	Clay	156.87	
					3,123.99
Railroad st., Water st., easterly	351	12″	Clay		490.75
Randolph st., Maplewood terrace, easterly	250	12″	Clay		22.96
	251	10″	Clay		

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Ranney st., Wilmont st., southerly	85	10″	Clay	$96.04	
Wilmont st., northerly	200	10″	Clay	151.76	
Johnson st., northerly	301	12″	Clay	426.13	
	264	10″	Clay		
Kensington ave., northerly	206	10″	Clay	149.18	
					$823.11
Rapalus ave., I. O., Parker st., southerly	442	12″	Clay		448.05
Raymond ave., Carew st., northerly	277	10″	Clay		217.32
Reed st., State st., southerly	219	12″	Clay		244.74
	362	10″	Clay		
Revere st., White st., southerly	750	20″	Clay		23.32
	250	10″	Clay		
	209	8″	Clay		
Richelieu court, Adams st., southerly	160	12″	Clay		525.44
	315	10″	Clay		
Richelieu place, Richelieu court, easterly	100	8″	Clay		....
Ridgewood place, Mulberry st., northerly	400	12″	Clay	29.46	
	76	10″	Clay	101.95	
					131.41
Ridgewood terrace, Mulberry st., westerly	226	10″	Clay	....	
Union st., southerly	137	10″	Clay	118.83	
					118.83
Rimmon ave., Greene lane to Weaver ramble	859	18″	Clay		....
Weaver ramble, northerly	200	12″	Clay		....
Ringgold st., North to Chestnut st.	117	18″	Cem.		744.53
	632	12″	Cem.		
Ripley place, St. James ave., southerly	230	10″	Cem.		163.48
Rittenhouse terrace, Sumner ave. to Davisston ave.	250	18″	Clay		1,074.11
	249	15″	Clay		
	249	12″	Clay		
	128	10″	Clay		

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Riverview st., Riverview terrace to Chase ave...	63	10″	Clay	....	
	310	10″	Clay	$354.50	
Forest Park ave., southerly.....	299	10″	Clay	239.39	
					$593.89
Riverview terrace, Fort Pleasant ave., easterly.	298	15″	Clay		
	322	12″	Clay		....
	105	10″	Clay		
Rochelle st., Wilbraham road, southerly.....	424	18″	Clay		
	200	15″	Clay		676.78
Rogers ave., I. O., Main st., southerly.....	97	15″	Clay		
	152	12″	Clay		312.13
Roseland st., Plainfield st., westerly.....	350	18″	Clay		
	350	15″	Clay		1,415.73
	241	12″	Clay		
Rowland st., Conn. river to North Main st., including 630′ in Douglas st..	579	5′-3″ cir.	Brick		
	51	1′-8″x2′-6″	Brick		
	1,247	6′-6″ cir.	Brick		32,489.36
	1,330	6′-0″ cir.	Brick		
Rupert st., White st. to Kimberly ave.....	241	18″	Clay		
	152	15″	Clay		614.13
Ruskin st., Eleanor road, southerly.....	231	12″	Clay		
	233	10″	Clay		397.51
Rutland st., Wilbraham road to State st.....	199	8″	Clay		147.15
Rutledge ave., Main st., easterly.....	574	24″	Clay		49.43
Sachem st., Dickinson st., northerly.....	330	10″	Clay		368.85
Salem st., Pearl st., south and east.....	283	18″	Cem.		
	99	15″	Cem.		804.72
	290	12″	Cem.		
***Sanford st.**.....	536	3′-2″x4′-9″	Brick		4,014.47
Saratoga st., Niagara to Richelieu st.....	233	15″	Clay		
	229	12″	Clay		975.60
	129	10″	Clay		
***Sargeant st.**, Fulton to Main (cost shown under Clinton st.).....	920	4′-6″x6′-9″	Brick		....
School st., Union to Mulberry st.....	560	15″	Clay	620.95	
Union st., northerly.....	258	10″	Clay	256.85	
					877.80
Scott st., White to Pomona st.....	300	12″	Clay		
	347	10″	Clay		468.68

* Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Searle place, Walnut st., easterly	178	10″	Clay		$231.61
Seventh st., Fulton to Main st.	830	12″	Cem.		700.00
Sewer in avenue (see private ways).					
Sewer (see private ways).					
Sharon st., Garden brook to Main st.	209	15″	Clay	$945.67	
	151	12″	Clay		
Garden brook, easterly	301	20″	Clay		
	300	18″	Clay		
	231	15″	Clay	2,355.50	
	232	12″	Clay		
					3,301.17
Shattuck st., Maynard st.	200	10″	Clay		
to Willard ave.	143	8″	Clay		....
Willard ave., easterly	50	8″	Clay		....
Shefford st., Springfield st.,	293	12″	Clay		
westerly	350	10″	Clay		601.41
Sheldon st., Birnie ave. to	311	12″	Clay		
N. Main st.	317	10″	Clay		18.49
Sherman st., Bay to Clarendon st.	175	12″	Cem.		
Bay to McKnight st.	443	12″	Cem.	571.12	
State to McKnight st.	301	18″	Clay		
	301	15″	Clay	1,314.14	
	544	12″	Clay		
					1,885.26
Shillingford st., Eastern ave. to Sheffield st.	640	12″	Clay		447.45
Silver st., Armory st., easterly	302	15″	Clay		
	297	12″	Clay		470.93
Smith st., Knox to Dorne st.	199	12″	Clay	196.57	
Dorne st., westerly	107	10″	Clay	136.68	
					333.25
Sorrento st., Sumner ave., northerly	325	12″	Clay	271.15	
Grenada terrace, northerly	367	10″	Clay	252.09	
					523.24
Spencer st., Sumner ave., southerly	282	12″	Clay		
	315	10″	Clay		451.29
Spring st., south from Lyman st.	281	15″	Cem.		
	130	12″	Cem.		
Worthington to State st.	470	18″	Cem.	2,592.14	
	640	15″	Cem.		
	644	12″	Cem.		

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Size	
Worthington st., northerly	132	12″	Clay	$87.28	
Worthington to Summer st.	183	5′-0″ cir.	Brick	1,498.24	
*	49	4′-3″x6′-0″	Brick		
					$4,177.66
Springfield st., Atwater	892	20″	Clay		
terrace, northerly	360	18″	Clay		
	413	15″	Clay		3,337.44
	286	12″	Clay		
	437	10″	Clay		
Springfield st. and Glenwood (see private ways).					
Spruce st., Central st., northerly	600	12″	Cem.		609.90
Spruceland ave., Magnolia terrace, westerly	67	8″	Clay	....	
Beechwood ave., easterly.	242	8″	Clay	136.48	
Beechwood ave., westerly.	299	8″	Clay	94.83	
Longhill st., easterly	450	10″	Clay	410.40	
					641.71
Stafford st., Armory st., westerly	402	10″	Clay		239.85
State st., Water st., westerly	70	12″	Cem.	45.27	
	91	12″	Cem.	71.19	
	82	12″	Clay	83.01	
Water to Main st.	907	18″	Cem.	1,199.78	
Main to Dwight st.	636	18″	Cem.	1,433.50	
†Dwight st. to High school	29	2′-8″x4′-0″	Brick		
	265	2′-2″x3′-3″	Brick	4,897.66	
	417	2′-0″x3′-0″	Brick		
At High school, connecting old with new	54	24″	Clay	161.88	
High school to Elliott st.	305	2′-0″ cir.	Brick	469.65	
High school to Walnut st.	726	2′-0″x3′-0″	Con.		
	306	2′-2″ cir.	Con.		
	1,440	2′-0″ cir.	Con.	6,442.79	
connecting new with old.	54	18″	Clay		
Walnut to Oak st.	250	18″	Clay		
	253	15″	Clay	1,678.37	
	348	12″	Clay		
Federal st., easterly	695	2′-0″ cir.	Brick	1,062.40	
	130	12″	Clay	274.35	
Oak to Buckingham st.	2,110	18″	Cem.	2,848.93	
Hancock to Sherman st.	1,147	3′-4″x5′-0″	Brick	13,586.64	
Sherman to Chapin st.	492	3′-0″x4′-6″	Brick		
Chapin to Andrew st.	726	3′-0″x4′-6″	Brick		
Andrew st. to Oak Grove ave.	937	2′-10″x4′-3″	Brick	10,793.96	

* Segmental. † Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
east from Oak Grove ave. to Cortland st.....	548	2′-4″x3′-6″	Brick		
	283	2′-2″x3′-3″	Brick	$5,042.79	
	352	2′-0″x3′-0 ′	Brick		
Cortland st., easterly....	355	24″	Clay		
	112	18″	Clay	4,616.11	
	3,399	12″	Clay		
					$54,708.28
Stearns square (west roadway), Bridge st., northerly.....	172	12″	Clay		205.83
Stearns square (east roadway), Bridge st., northerly.....	167	8″	Clay	67.00	
Worthington st., southerly	148	12″	Clay	342.98	
					409.98
Stebbins st., Union to State st.....	300	12″	Clay	596.89	
	293	10″	Clay		
Union st., southerly.....	151	10″	Clay	196.80	
					793.69
Sterns terrace, Central st., northerly.....	393	12″	Clay		605.10
***Stevens st.**, Page boulevard, southerly.....	438	10″	Clay		483.12
St. James ave., State st., northerly.....	191	18″	Clay		
	467	12″	Clay	906.01	
	123	10″	Clay		
Bay st. to Ripley place...	91	12″	Cem.	135.23	
Florida st. to Ripley place	469	12″	Cem.	500.89	
Florida st., northerly....	417	18″	Cem.		
	300	12″	Cem.	1,073.90	
Clarendon to Westminster st.....	248	15″	Cem.	404.60	
Clarendon st., northerly..	138	8″	Clay	64.82	
Dartmouth to Harvard st.	385	2′-0″x3′-0″	Brick	2,738.53	
Harvard to Princeton st..	528	24″	Clay	1,587.44	
Princeton st., northerly..	308	18″	Clay		
	249	15″	Clay	965.55	
	57	12″	Clay		
Chicopee road to Page boulevard.....	127	24″	Clay	396.52	
					8,773.49
Stockbridge st., Main st., easterly.....	777	18″	Cem.		1,084.57
Stratford terrace, White st., easterly.....	190	12″	Clay		562.32
	314	10″	Clay		

* Sanitary sewer.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Suffolk st., Wilbraham road, southerly	300	15″	Clay	$295.06	
	300	12″	Clay	596.52	
	795	10″	Clay		
					$890.58
Sullivan st., Armory st., easterly	395	12″	Clay		40.41
***Summer st.**, Spring to Armory st.	44	4′-3″x6′-0″	Brick		
	†1,344	4′-2″x6′-3″	Brick		24,048.88
	†1,093	2′-10″x4′-3″	Brick		
	†750	3′- 8″x5′-6″	Brick		
Sumner ave., Fort Pleasant ave. to Longhill st.	448	12″	Clay	815.24	
	358	10″	Clay		
Fort Pleasant ave. to Randolph st.	673	2′- 0″x3′-0″	Brick		
Randolph st. to Washington road	360	1′-10″x2′-9″	Brick	7,968.46	
Washington road to Forest Park ave.	360	1′- 8″x2′-6″	Brick		
Forest Park ave. to Greenleaf st.	367	1′- 6″x2′-3″	Brick		
Greenleaf st. to Belmont ave.	355	20″	Clay		
	851	18″	Clay		
	736	15″	Clay	2,915.88	
	272	12″	Clay		
	426	10″	Clay		
Belmont ave., easterly	100	8″	Clay	37.49	
†Dickinson to White st.	2,219	2′-8″x4′-0″	Brick	11,531.37	
White st. to Castle ave.	565	2′-2″x3′-3″	Brick	2,391.46	
	1,110	2′-2″x3′-3″	Con.	2,246.16	
	739	15″	Clay	1,645.60	
	879	12″	Clay		
					29,551.66
Sumner terrace, Sumner ave. northerly	252	12″	Clay		440.44
	220	10″	Clay		
****Sycamore st.**, Acorn to Bay st.	899	8″	Clay		352.24
Sylvan ave., Belmont ave. to Fountain place	294	20″	Clay		1,136.42
	251	18″	Clay		
	249	15″	Clay		
Symonds ave., Worthington to Bridge st. (includes cost of Bond pl.)	300	15″	Cem.		696.89
Talcott ave., Fisk ave. to Plainfield st.	362	15″	Clay		549.57
	316	12″	Clay		

* Segmental. † Elliptical. ** Sanitary sewer.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Taylor st., Main to Chestnut st	330	20″	Clay		
	321	18″	Clay	$3,747.24	
	197	15″	Clay		
	50	12″	Clay	51.79	
	341	12″	Cem.	463.50	
					$4,262.53
Temple st., Maple to School st	304	15″	Clay		
	300	12″	Clay	1,127.60	
	345	10″	Clay		
outlet into High school sewer	169	15″	Clay	171.71	
					1,299.31
Tenth st., Garden brook, easterly	300	18″	Clay		
	302	15″	Clay		
	421	12″	Clay		1,256.39
	4	8″	Clay		
Terrence st., Union to State st	374	12″	Clay		
	313	10″	Clay	565.26	
	48	10″	Cem.	34.02	
					599.28
Thomas st., Birnie ave., easterly	451	10″	Clay		364.91
Thompson st., Worthington st., southerly	603	12″	Cem.	638.27	
St. James ave. to Bay st.	703	15″	Cem.	749.22	
State to Bay st	852	12″	Cem.	653.12	
					2,040.61
Thorndyke st., Sumner ave., southerly	116	12″	Clay		148.93
Tracy st., Franklin st., southerly	14	10″	Clay	15.48	
	262	10″	Clay	....	
					15.48
Trafton road, Dickinson st., westerly	351	18″	Clay		
	460	15″	Clay		923.68
	140	12″	Clay		
Trenton st., Dickinson st. to Commonwealth ave.	146	10″	Clay		125.74
Trillium st., White to Greenbrier st	345	10″	Clay		234.62
Trinity terrace, Sumner ave. to Morningside park	300	12″	Clay		533.91
	416	10″	Clay		
Tyler st., Oak to Orleans	419	15″	Clay	685.55	
Orleans to Hancock st	298	15″	Cem.	838.34	
	663	12″	Cem.		
Hancock st. to Eastern ave	601	18″	Cem.	815.47	
	795	15″	Cem.	718.71	
Eastern ave., easterly	251	10″	Cem.	199.75	
					3,257.82

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Union st., submerged outlet	165	24″	Wood	$1,604.45	
	48	24″	C. Iron	391.23	
Conn. river to Main st.	1,610	3′-4″x5′-0″	Brick	8,806.18	
	53	2′-0″x3′-0″	Brick		
Main to Oak st	*718	3′-2″x4′-9″	Con.	13,447.59	
	951	2′-8″ cir.	Con.		
	1,021	2′-3″ cir.	Con.		
	1,504	2′-4″x3′-6″	Con.	7,638.58	
Oak to Orleans st	404	15″	Cem.	467.96	
Hancock to Stebbins st.	261	2′-0″x3′-0″	Brick	2,307.33	
	335	1′-10″x2′-9″	Brick		
Stebbins to Orleans st.	428	20″	Clay	737.72	
Hancock st. to Eastern ave.	600	18″	Cem.	1,535.40	
	800	15″	Cem.		
Eastern ave., easterly	248	10″	Clay	182.22	
					$37,118.66
Vassar st., Harvard st., northerly	550	12″	Cem.		153.37
Ventura st., Sumner ave., northerly	351	10″	Clay	289.51	
Grenada terrace, northerly	341	10″	Clay	223.28	
					512.79
Vermont st., Converse to Pomona st	258	15″	Clay		
	267	12″	Clay		524.78
	225	10″	Clay		
Vernon st., Water st., easterly	639	15″	Cem.	837.92	
Main st., westerly	216	12″	Cem.	310.68	
					1,148.60
Vine st., Main to Fulton st.	697	12″	Cem.		688.75
Vinton st., Liberty to Franklin st	357	12″	Clay	393.47	
	262	10″	Clay	252.13	
					645.60
Virginia st., Dickinson st. to Trafton road	348	15″	Clay		
	301	12″	Clay		731.42
	344	10″	Clay		
Walden st., Dickinson st., easterly	166	8″	Clay	94.93	
Commonwealth to Belmont ave	296	10″	Clay	148.67	
					243.60
Walker st., Water st., westerly	650	12″	Clay		688.37
Walnut court, Walnut st., westerly	211	10″	Clay		188.15

* Elliptical.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Walnut st., south from State st.	69	1′-6″x1′-8″	Brick	$85.23	
north from Charter ave.	292	10″	Clay	418.30	
Union st. to Charter ave.	279	12″	Cem.	482.50	
Union to Oak st.	558	12″	Clay	792.64	
	17	12″	Cem.	20.50	
Cedar to Pine st.	1,142	2′-0″x3′-0″	Brick	4,956.57	
Pine to Oak st.	254	18″	Cem.	383.04	
Hancock to Cedar st.	784	15″	Cem.	1,269.67	
Hancock st., southerly	180	12″	Cem.		
north from Manhattan st.	249	10″	Clay	212.35	
Florence st., northerly	53	8″	Cem.	27.12	
Hickory to Florence st.	1,026	12″	Clay	992.67	
					$9,640.59
Walter st., Birnie ave. to North Main st.	385	12″	Clay		422.74
Waltham ave., Wilbraham road, southerly	911	12″	Clay		953.07
Wareham st., Grand ave., southerly	419	10″	Clay		21.24
Warner st., Fort Pleasant	508	12″	Clay		
ave. to Longhill st.	198	10″	Clay	....	
	89	10″	Clay	51.88	
					51.88
Warriner ave., Locust st., easterly	448	12″	Clay		418.39
Washburn st., Conn. river to B. & M. R. R.	1,758	7′-0″ cir.	Brick		21,678.46
Washington boulevard, Longhill st. to Pineywoods ave.	304	2′-4″x3′-6″	Brick	5,032.68	
	823	2′-2″x3′-3″	Brick		
	308	18″	Clay		
	200	15″	Clay	868.79	
	242	12″	Clay		
	330	10″	Clay		
					5,901.47
Washington road, Sumner ave., southerly	460	10″	Clay	56.78	
Pineywoods ave., northerly	141	10″	Clay	149.77	
	281	10″	Clay	....	
					206.55
Wason ave., Conn. river to Plainfield st.	451	3′-10″x5′-9″	Brick		
Plainfield st. to Fisk ave.	1,051	3′- 4″x5′-0″	Brick		
Fisk to Birnie ave.	634	3′- 2″x4′-9″	Brick		16,642.62
Birnie ave. to North Main st.	247	2′- 0″x3′-0″	Brick		

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Water st., Gardner to Loring st.	474	1'-10"x2'-9"	Brick	$1,219.79	
Loring st., northerly	345	12"	Cem.	237.38	
Union to Margaret st.	721	2'- 0"x3'-0"	Brick	2,367.61	
Union st., northerly	868	18"	Cem.		
Elm to State st.	275	18"	Cem.	508.75	
Elm to Pynchon st.	43	2'- 0"x3'-0"	Brick	198.00	
	498	2'- 6"x3'-6"	Brick	2,949.29	
Pynchon st., northerly	257	18"	Cem.	404.44	
	329	15"	Cem.	460.60	
	61	12"	Cem.	85.40	
Worthington st., southerly	209	10"	Clay	333.54	
Worthington to Hampden st.	327	15"	Cem.	457.80	
Hampden to Railroad st.	321	12"	Clay	638.58	
					$9,861.18
Waverly st., North Main to Chestnut st.	473	20"	Clay		
	487	10"	Clay		1,268.03
Weaver ramble, Rimmon ave., westerly and northerly	480	12"	Clay		....
Webster st., Liberty to Franklin st.	601	12"	Clay		505.99
Welcome place, Bay st., northerly	238	8"	Clay		17.84
Wellesley st., St. James ave. to Cornell st.	236	12"	Clay		
	224	10"	Clay		540.30
Wellington st., Wilbraham road, southerly	287	15"	Clay		
	244	12"	Clay		46.33
	291	10"	Clay		
Wendell ave., Main st., easterly	458	15"	Clay		....
West Alvord st., Sumner ave. to Daviston ave.	153	24"	Clay		
	268	20"	Clay		
	550	18"	Clay		1,546.17
	300	15"	Clay		
	412	12"	Clay		
Westernview st., Forest Park ave., easterly	468	12"	Clay		
	138	10"	Clay		539.60
Westford ave., Wilbraham road, southerly	300	15"	Clay		
	300	12"	Clay	676.23	
	350	10"	Clay		
*Westford circle to King st.	541	12"	Clay	454.36	
					1,130.59

*Sanitary sewer.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
*Westford circle, Albemarle st. to Westford ave.	786	12″	Clay		$1,434.19
Westminster st., Bay to State st.	300	15″	Clay	$705.11	
	300	12″	Clay		
	201	10″	Clay		
St. James ave., southerly.	773	12″	Cem.	794.10	
					1,499.21
White st., Allen to Orange st.	747	24″	Clay	1,717.86	
	674	20″	Clay	1,490.97	
	274	18″	Clay		
Orange st. to Dawson ave.	388	15″	Clay	389.27	
	292	15″	Clay	275.73	
Gordon st. to Dawson ave.	192	10″	Clay	212.77	
Gordon st., southerly.	690	12″	Clay	671.32	
	207	8″	Clay	84.45	
Sumner ave. to Lawrence st.	1,266	24″	Clay	1,828.15	
Sumner ave. to Trillium st.	1,028	20″	Clay		
	166	18″	Clay		
	329	12″	Clay	2,300.75	
Belmont ave. to Trillium st.	233	24″	Clay		
	191	12″	Clay	1,189.60	
	210	10″	Clay		
Belmont ave. to Eleanor road.	374	2′-8″x4′-0″	Con.	1,895.82	
					12,056.69
Whiting st., Plainfield st., westerly.	299	18″	Clay		
	297	15″	Clay		834.16
	196	12″	Clay		
Whitney ave., Water st., westerly.	450	12″	Cem.		293.51
Whittier ave., Sumner ave. to Longfellow terrace.	301	18″	Clay		
	299	15″	Clay		
	301	12″	Clay		1,261.63
	221	10″	Clay		
Wight place, Water st., easterly.	175	10″	Clay		240.47
Wilbraham ave., Wilbraham road, southerly.	1,125	12″	Clay	1,020.78	
Alden to Beverly st.	999	10″	Clay	1,121.36	
	1,180	8″	Clay		
					2,142.14

*Sanitary sewer.

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Wilbraham road, State st., easterly	248	12″	Cem.	$157.79	
State st. to Northampton ave.	1,451	2′-0″x3′-0″	Brick	6,269.23	
Northampton ave. to Bristol st.	472	2′-6″x3′-9″	Brick		
	476	2′-4″x3′-6″	Brick		
	478	2′-2″x3′-3″	Brick	9,021.22	
	473	2′-0″x3′-0″	Brick		
	254	1′-10″x2′-9″	Brick		
	256	1′-8″x2′-6″	Brick		
Bristol st., easterly	263	20″	Clay	859.35	
	405	12″	Clay		
					$16,307.59
Wilcox st., Water st., easterly	548	15″	Cem.	1,000.75	
	327	12″	Cem.		
Water st., westerly	463	12″	Cem.	205.76	
					1,206.51
Willard ave., State st., northerly	282	18″	Clay		
	300	15″	Clay	785.26	
	241	12″	Clay		
Shattuck ave., southerly	215	8″	Clay	....	
					785.26
William st., Water to Main st.	875	12″	Cem.	918.26	
	32	12″	Clay	125.28	
Main to Dale st.	351	12″	Clay	931.32	
	311	10″	Clay		
Water st., westerly	76	15″	Cem.	459.79	
	425	12″	Cem.		
					2,434.65
Willow st., Cross to State st.	413	12″	Clay	791.42	
Cross to Park st.	265	12″	Clay	378.17	
Union to Park st.	216	18″	Cem.	325.32	
Union st. to Hubbard ave.	219	10″	Clay	204.39	
					1,699.30
Wilmont st., Dickinson to Revere st.	349	18″	Clay		
	450	15″	Clay		1,557.40
	386	12″	Clay		
Winchester st.	424	12″	Clay		357.96
Windsor st., Knox st., westerly	308	12″	Clay		560.76
	266	10″	Clay		
Winter st., Chestnut st., easterly	137	20″	Clay		414.46
Winthrop st., Main st., easterly	52	18″	Cem.	220.81	
	141	15″	Cem.		
	310	15″	Clay	1,045.76	
	230	12″	Clay		
					1,266.57

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SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Wolcott st., Armory st., northerly	220	10″	Clay	....	
	206	10″	Clay	$192.49	
					$192.49
Woodside terrace, Belmont ave., northerly	451	10″	Clay	334.36	
Forest Park ave., northerly	307	10″	Clay	....	
					334.36
Woodworth ave., State st., southerly	199	12″	Clay		
	131	10″	Clay		614.25
Worcester ave., Plainfield st. to Fisk ave	854	15″	Cem.		295.09
Worcester st., I. O., Myrtle to Chestnut st	4	24″	Clay		
	290	20″	Clay	945.80	
	382	2′-0″x3′-0″	Brick	1,283.00	
Chestnut to Holly st	670	1′-10″x2′-9″	Brick	2,398.09	
Oak st., easterly	275	12″	Clay		
	212	10″	Clay	542.93	
Pine st., easterly	546	20″	Clay		
	224	18″	Clay		
	601	15″	Clay	2,511.24	
	176	10″	Clay		
					7,681.06
Worthington st., submerged outlet	194	24″	Wood	1,883.04	
	22	24″	C. Iron	176.25	
*Conn. river to Main st	1,038	5′-7″x7′-0″	Brick		
*Main to Dwight st	821	5′-4″x7′-0″	Brick	33,410.12	
Dwight to Garden brook	566	4′-0″x6′-0″	Brick		
Garden brook to Spring st.	738	4′-3″ cir.	Brick		
Spring st., branch north	35	5′-0″ cir.	Brick	4,361.35	
Spring st., branch south	47	2′-0″x3′-0″	Brick		
Spring st., easterly	40	18″	Cem.		
	242	15″	Cem.	614.35	
	251	12″	Cem.		
Autumn st., westerly	113	12″	Cem.	118.78	
near Sacketts ave	145	10″	Cem.	111.47	
West brook, easterly	329	15″	Clay		
	217	12″	Clay	1,110.54	
West brook to Autumn st.	231	15″	Clay	727.56	
Sacketts ave., westerly	98	12″	Clay	207.28	
Sacketts to Kibbe ave	337	12″	Cem.	335.37	
Kibbe ave. to Federal st.	794	15″	Clay	826.90	
Kibbe hollow, westerly to Magazine st	167	18″	Clay	381.28	

* Elliptical.

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SEWER SYSTEM.—*Concluded.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Kibbe hollow to Bowdoin st	833	2′-2″ cir.	Con.	$2,357.86	
near Magazine to Bowdoin st	248	2′-8″x4′-0″	Brick		
	354	2′-1″x3′-1½″	Brick		
Bowdoin st. to St. James ave	359	3′-4″x7′-2″	Brick	20,646.21	
	1,307	3′-4″x6′-9″	Brick		
					$67,268.36
X Court, Dickinson st., westerly and southerly.	34	10″	Clay	84.24	
	192	10″	Clay	19.05	
					103.29
Yale st., Dartmouth to Princeton st	350	24″	Clay		
	359	18″	Clay	1,770.13	
	233	15″	Clay		
Princeton st., northerly	712	12″	Clay	452.46	
					2,222.59
York st	1,203	7′-0″ cir.	Brick		13,912.27
Totals	713,105				$1,656,135.54

NOTE.—Sewers constructed by the city on private land or ways are indexed under Private ways.

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RECAPITULATION BY SIZES.

DESCRIPTION	Length in Feet	Sizes	Material
Segmental	93	6′- 0″x4′- 3″	Brick and cem. mortar.
Elliptical shaped	1,038	5′- 7″x7′- 0″	" " "
" "	821	5′- 4″x7′- 0″	" " "
" "	1,095	4′-10″x7′- 3″	" " "
" "	1,949	4′- 8″x7′- 0″	" " "
" "	1,170	4′- 6″x6′- 9″	" " "
" "	1,040	4′- 4″x6′- 6″	" " "
" "	2,340	4′- 2″x6′- 3″	" " "
" "	1,746	3′- 8″x5′- 6″	" " "
" "	830	3′- 4″x5′- 0″	" " "
" "	536	3′- 2″x4′- 9″	" " "
" "	819	3′- 0″x4′- 6″	" " "
" "	1,093	2′-10″x4′- 3″	" " "
" "	2,506	2′- 8″x4′- 0″	" " "
" "	5,778	2′- 2″x3′- 3″	" " "
" "	417	2′- 0″x3′- 0″	" " "
Egg shaped	566	4′- 0″x6′- 0″	" " "
" "	1,131	3′-10″x5′- 9″	" " "
" "	1,074	3′- 8″x5′- 6″	" " "
" "	3,512	3′- 6″x5′- 3″	" " "
" "	359	3′- 4″x7′- 2″	" " "
" "	1,307	3′- 4″x6′- 9″	" " "
" "	8,787	3′- 4″x5′- 0″	" " "
" "	1,056	3′- 2″x4′- 9″	" " "
" "	2,877	3′- 0″x4′- 6″	" " "
" "	953	2′-10″ 4′- 3″	" " "
" "	364	2′- 9″x4′- 1½″	" " "
" "	2,516	2′- 8″x4′- 0″	" " "
" "	4,818	2′- 6″x3′- 9″	" " "
" "	498	2′- 6″x3′- 6″	" " "
" "	150	2′- 5″x3′- 7½″	" " "
" "	8,636	2′- 4″x3′- 6″	" " "
" "	8,688	2′- 2″x3′- 3″	" " "
" "	603	2′- 1″x3′- 1½″	" " "
" "	18,874	2′- 0″x3′- 0″	" " "
" "	4,921	1′-11″x2′- 9″	" " "
" "	2,432	1′- 8″x2′- 6″	" " "
" "	917	1′- 6″x2′- 3″	" " "
" "	669	1′- 4″x2′- 0″	" " "
Circular	3,017	7′-0″	" " "
"	3,019	6′-6″	" " "
"	1,330	6′-0″	" " "
"	1,743	5′-9″	" " "
"	3,842	5′-6″	" " "
"	949	5′-3″	" " "
"	2,257	5′-0″	" " "
"	3,274	4′-7½″	" " "
"	1,762	4′-6″	" " "

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RECAPITULATION BY SIZES.—*Continued.*

DESCRIPTION	Length in Feet	Sizes	Material
Circular	3,362	4′-3″	Brick and cem. mortar.
"	952	4′-1″	" " "
"	2,399	4′-0″	" " "
"	385	3′-9″	" " "
"	677	3′-6″	" " "
"	2,209	3′-3″	" " "
"	2,549	3′-0″	" " "
"	2,072	2′-8″	" " "
"	1,520	2′-0″	" " "
"	190	1′-6″	" " "
Elliptical	416	2′-10″x4′- 3″	Brick-concrete.
"	245	3′- 0″x4′- 6″	" "
Segmental	60	5′- 0″x2′- 1″	Concrete.
Elliptical	385	4′-10″x7′- 3″	"
"	1,085	4′- 2″x6′- 3″	"
"	718	3′- 2″x4′- 9″	"
"	612	2′-10″x4′- 5″	"
"	2,967	2′-10″x4′- 3″	"
"	374	2′- 8″x4′- 0″	"
"	1,504	2′- 4″x3′- 6″	"
Egg shaped	352	2′- 8″x4′- 0″	"
"	1,365	2′- 6″x3′- 9″	"
"	191	2′- 4″x3′- 6″	"
"	3,031	2′- 2″x3′- 3″	"
"	1,702	2′- 0″x3′- 0″	"
"	349	1′- 8″x2′- 6″	"
Circular	1,083	5′-0″	"
"	1,004	4′-9″	"
"	478	4′-3″	"
"	684	4′-0″	"
"	2,365	3′-9″	"
"	1,940	2′-8″	"
"	760	2′-6″	"
"	1,484	2′-3″	"
"	1,139	2′-2″	"
"	1,440	2′-0″	"
"	37,309	24″	Clay pipe.
"	27,036	20″	" "
"	41,236	18″	" "
"	67,296	15″	" "
"	127,056	12″	" "
"	115,108	10″	" "
"	14,856	8″	" "
"	287	6″	" "
"	21,241	18″	Cement pipe.
"	31,985	15″	" "
"	58,463	12″	" "
"	4,278	10″	" "

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RECAPITULATION BY SIZES.—*Concluded.*

DESCRIPTION	Length in Feet	Sizes	Material
Circular	651	8″	Cement pipe.
"	120	24″	Cast-iron pipe.
"	28	18″	" "
"	726	24″	Wood pipe.
"	290	18″	" "
Miscellaneous shapes	919		Brick and cem. mortar.
Total	713,105		

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GENERAL CLASSIFICATION, 1913.

	Feet	Miles
Brick and cement mortar	137,406	26.024
Brick-concrete	661	.125
Concrete	27,072	5.127
Clay pipe	430,184	81.474
Cement pipe	116,618	22.087
Cast-iron pipe	148	.028
Wood pipe	1,016	.193
Total	713,105	135.058

SUMMARY OF SEWERAGE STATISTICS.

(In form recommended by Sanitary Section of Boston Society Civil Engineers.)

For the Year Ending December 1, 1913.

SPRINGFIELD, MASSACHUSETTS.

GENERAL.

Population by census of 1910, ... 88,926
Total area of city or town, ... 38 square miles.
Area served by sewerage system, ... 9 square miles.
Collection system, { For sewage only, ... 4.02 miles.
For sewage and surface water, . . 130.43 miles.
For surface water only, ...60 miles.
Method of disposal,—Gravity flow to Connecticut River.

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COLLECTION.

Mains (Everything but House and Catch Basin Connections).

		For sewage only.	For sewage and surface water.	For surface water only.
2.	Lineal feet brick,		137,406	
3.	" " concrete,		27,733	
4.	" " pipe,	21,233	523,530	3,203
5.	" " pipe extended during year,	7,888	19,445	
6.	Number of inverted siphons,		1	
8.	Method of flushing: By connections with the water system.			
9.	Method of cleaning: By scrapers and flushing.			
11.	Number of direct connections with water mains for flushing,	6	537	
12.	Number of flushings of entire system during year,		26	
13.	Cost of flushing, per mile,		$18.29	
14.	Cost of cleaning, per mile,		$21.61	
17.	Number of storm overflows,		16	
18.	Method of ventilation: By manholes and well holes and through house stacks.			

HOUSE CONNECTIONS.

1.	By whom made:	By Sewer Department as far as street line.
2.	Sizes,	6" and 8"
3.	Number made during year,	455
4.	Lineal feet laid during year,	About 13,000
7.	Average cost per foot, connections made during year,	$0.50

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GENERAL.

Total cost of collecting mains to date,	$1,656,135.54
Bonded debt at date,	284,500.00
Value of sinking fund at date,	65,961.00
Average rate of interest on bonds,	3.79%
Proportion of cost of system paid for by abutters in fees,	40%+

Methods of assessing abutters and rate of assessment:—

Entrance fee of fifty ($50) dollars for dwelling houses.

For buildings used for business purposes two (2) cents per square foot of area covered by the building for the two lower stories, and an additional charge of one half (½) cent per square foot of area covered by the building for each additional story.

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REPORT

OF

ASHES, GARBAGE AND WASTE DIVISION

FISCAL YEAR ENDING NOVEMBER 29, 1913

Mr. F. H. Clark, Superintendent, Department of Streets and Engineering.

DEAR SIR:—In accordance with your request I herewith submit the annual report showing the expenditures of the Division of Ashes, Garbage and Waste for the fiscal year ending November 29, 1913.

	Direct Expense	Indirect Expense	Totals
Ashes and Waste,	$45,613 13	$4,561 32	$50,174 45
Garbage,	17,687 91	1,768 80	19,456 71
Pensions,		61 00	61 00

The increased expense of the Division has been caused largely by the separate collection of ashes and rubbish and the increased length of the haul of garbage to the reduction plant near the Almshouse.

ASHES.

Complete arrangements have now been made for the separate collections of ashes and rubbish. Under these conditions the ashes are carried to the nearest low land and used for filling purposes, which helps the property owner and enables the division to reduce the cost of collections by taking advan-

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tage of short hauls. The serious conditions, arising from the mixture of paper, straw and other inflammable materials on the various dumps have been eliminated to a great extent. During the year, twenty-seven thousand one hundred and fifty (27,150) loads of ashes and rubbish have been collected. As a complete separation of these two materials did not go into effect until late in the season it is impossible to submit a detailed report of separate collections.

A source of much complaint has been occasioned by the scattering of ashes on walks and lawns. This, I believe, can only be eliminated by the householder providing iron cans. The practice of using wooden barrels and boxes as receptacles is very unsatisfactory, both as a matter of cleanliness and because of their inflammability.

If it is permissible I would like to suggest that a proper ash can be purchased by the department and supplied to the householder at actual cost.

THE INCINERATOR AND RUBBISH COLLECTIONS.

The incinerator recently constructed at the West Street property was placed in commission about the first of November, and since that time has given satisfactory results. The incinerator at the South End Yard has been in operation throughout the season. The results have not been entirely satisfactory, as the amount of rubbish delivered greatly exceeds the capacity of the furnace. The department has purchased a new type of wagon for collecting paper, with about twice the capacity of the old style. These wagons have proved entirely satisfactory, inasmuch as the cost of long hauls is diminished because of the great capacity.

During the summer, arrangements were made with James Berry & Son of Boston to dispose of all rubbish delivered to the incinerator. They received as a large part of their com-

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pensation such salvage as they were able to reclaim. The results attained at both the North and South End incinerators proved to be entirely satisfactory. At the Shattuck avenue dump arrangements were made by the Company with the property owners for the privilege of erecting a temporary building for receiving rubbish. For this concession the Company assumes the maintenance of the dump.

GARBAGE.

A reorganization of the working forces for the collection and transportation of garbage was made necessary early in the spring by the completion of the Springfield Merg Reduction Company's plant. Garbage that formerly was delivered to farmers at convenient points is now drawn to the plant, a distance on some routes of over four miles. This, of course, increased the cost of transportation, yet, by rearranging the hours of labor the Division has been able to collect more garbage with less men than formerly. The department has purchased eight new steel wagons to be delivered in the near future, which will enable the Division to dispose of all the old style bottom-dump wagons. These old wagons are past useful service as they are a source of great complaint because of their unsanitary construction and leakage while on the street.

In conclusion, I wish to thank all those who have in any way contributed to the measure of success attained by the Division.

Finally, I desire to thank you for the many courtesies extended to me during the year.

Respectfully submitted,

E. G. BARNES,

Deputy Superintendent of Ashes and Garbage Collections.

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REPORT

OF

STREET LIGHTING DIVISION

FOR FISCAL YEAR ENDING NOVEMBER 29, 1913

Mr. F. H. Clark, Superintendent of Streets and Engineering, City.

DEAR SIR:—I am sending you herewith a statement of the work done in the Street Lighting Division the past year.

We have placed 55 new arcs and 65 incandescents and moved 20 arcs. We have removed 3 incandescents and 4 arc lights; 79 poles have been replaced. The reason for so large an increase in poles replaced is that a more thorough inspection has been made than previously. We have also used concrete re-inforcement for 4 poles, and the results have been satisfactory. This will probably result in a great economy in later years, due to less poles being replaced.

During this year the city has made a contract with the Springfield Gas Light Company for the 5 gas lights on State street till May, 1914. This has been done to give the city a better opportunity to investigate these lights.

We have had tests made on the gas lights and on both the arc and incandescent lights furnished by the Electric Company. The city has also purchased instruments for making such measurements, and they have been of great use.

There has grown up during the last year or two a great demand for increased lighting in the business part of the city, and I strongly recommend that something be done along these lines. I recommend the placing of lights on the

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trolley poles on Main street, and that a large increase be made in the lighting of at least the more important side streets.

During the past year less incandescent lights have been installed than in many previous years, but we have placed several under test conditions, and they have been very successful, and I recommend a greatly increased use of incandescent lighting in residence streets.

Respectfully submitted,

WM. E. HODGE,

Deputy Superintendent Street Lighting.

FINANCIAL STATEMENT.

	Direct Expense.	Indirect Expense.	Total Expense.
Preparation of Poles,	$6 41	$0 55	$6 96
Preparation of Equipment,	168 05	11 62	179 67
Preparation of Mastarms and Goosenecks,	582 30	41 51	623 81
Erection of Poles and Mastarms,	978 53	31 70	1,010 23
Maintenance,	511 99	28 10	540 09
Operation (Lighting Streets),	119,604 46		119,604 46
Material on hand,	1,393 25		1,393 25
Totals,	$123,244 99	$113 48	$123,358 47

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EXPENDITURES PER YEAR.

	Expenditures.	Increase.		Expenditures.	Increase.
1897	$52,150 96		1906	$80,265 57	$1,597 36
1898	55,822 61	$3,671 65	1907	78,245 50	*2,020 27
1899	58,868 87	3,046 26	1908	86,243 84	7,998 34
1900	61,167 76	2,298 89	1909	90,291 12	4,047 28
1901	65,483 03	4,315 27	1910	96,908 49	6,617 37
1902	70,268 98	4,785 95	1911	104,246 23	7,337 74
1903	74,082 69	3,813 71	1912	111,485 16	7,238 93
1904	76,337 13	2,254 44	1913	123,358 47	11,873 31
1905	78,668 21	2,331 08			

* Decrease.

	Appropriations.	Increase.	Balance Unexpended.
1897	$53,003 10		$852 14
1898	57,077 50	$4,074 40	1,254 89
1899	60,452 60	3,375 10	1,538 73
1900	63,157 26	2,704 66	1,989 50
1901	66,242 16	3,084 90	759 13
1902	70,737 11	4,494 95	468 13
1903	74,194 11	3,457 00	111 42
1904	76,727 71	2,533 60	390 58
1905	79,348 55	2,620 84	680 34
1906	80,281 77	933 22	16 20
1907	78,280 96	*2,000 81	35 46
1908	86,255 71	7,974 75	11 87
1909	**91,148 46	4,892 75	557 34
1910	97,866 36	6,717 90	957 87
1911	104,660 11	6,793 75	413 88
1912	111,950 00	7,289 89	464 84
1913	†117,352 35	5,402 35	

* Decrease.

** 1909—$300 transferred to Engineering Department.

† On account of changes in method of paying bills, it was necessary to pay 13 months' bills from the year's appropriation, and therefore $6,000 more than the appropriation was spent, the extra amount being transferred from other divisions.

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LIST OF LAMPS CONNECTED DURING THE YEAR 1913.

INCANDESCENT LIGHTS.

Albemarle avenue,	2 Series.
Arlington court,	1 Series.
Beaumont terrace,	1 Series.
Bethune street,	2 Series.
Biltmore street, 300 feet from Dickinson street,	1 Series.
Cottage Hill Grove (I. O.),	4 Series.
Crest street,	1 Series.
Dorn street,	2 Series.
Dunmoreland avenue, corner Westford circle,	1 Series.
Eleanor road, corner Ruskin street,	1 Series.
Farnsworth street,	3 Series.
Greene street avenue,	1 Series.
Greenacre square,	1 Series.
Hancock street, between Central and Mill streets,	4 Series.
Hayden avenue,	1 Series.
Hunter place,	3 Series.
Lakeside avenue,	2 Series.
Leete avenue,	2 Series.
Mechanic street,	2 Series.
Montpelier street,	1 Series.
Niagara street,	2 Series.
Parkside avenue,	5 Series.
Parkwood street,	1 Series.
Plainfield street, 300 feet north of Wason avenue,	1 Series.
Prospect avenue,	1 Series.
Prospect terrace,	1 Series.
Rochelle street,	2 Series.
Rogers avenue (I. O.),	2 Series.
Saratoga street,	3 Series.
Smith street, corner Dorn street,	1 Series.
Superior place,	1 Series.
Sylvan avenue,	4 Series.
Van Ness avenue,	1 Series.
Virginia street,	2 Series.
Elm street (temporarily disconnected Nov. 24, 1913).	

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ARC LIGHTS.

Beaumont street, between Sumner and Belmont avenues,	Mastarm.
Beechwood avenue, 300 feet south of Sumner avenue,	Mastarm.
Berkshire avenue, between Fullerton and Ontario streets,	Mastarm.
Berkshire avenue, between Rushville and B. & A.,	Mastarm.
Birnie avenue, opposite Portland street,	Mastarm.
Bond street, first west of Chestnut street,	Mastarm.
Bowdoin street, first south of Worthington street,	Mastarm.
Catharine street, corner Pease street,	Mastarm.
Central street, opposite Florence street,	Mastarm.
Centre street, 300 feet north of Oak Grove avenue,	Mastarm.
Chestnut street, corner Eagle street,	Mastarm.
Commonwealth avenue, opposite Fairmount street,	Mastarm.
Court street, near Court Square avenue (temporary),	Gooseneck.
East Alvord street, in front of No. 45,	Mastarm.
East Hooker, first from Main street (between Nos. 31 and 33),	Mastarm.
Firglade avenue, corner Washington boulevard,	Mastarm.
Garfield street, corner Oakland street,	Mastarm.
Garfield street and Forest Park avenue,	Mastarm.
Corner Greenbrier and Blaine streets,	Mastarm.
Lebanon street, between Walnut and Hancock streets,	Mastarm.
Locust street extension, second from Belmont avenue,	Mastarm.
Locust street, third from Belmont avenue,	Mastarm.
Locust street, fourth from Belmont avenue,	Mastarm.
Locust street, fifth from Belmont avenue,	Mastarm.
Locust street, sixth from Belmont avenue,	Mastarm.
Logan street, corner Collins street, northwest,	Mastarm.
Logan street, corner Granville street,	Mastarm.
Liberty street, between Chicopee road and Imperial Park,	Top Light.
Liberty street, opposite Vinton street,	Mastarm.
Liberty street, near Chestnut street,	Mastarm.
Liberty street, in front of No. 254,	Mastarm.
Liberty street, between Chicopee road and Imperial Park,	Mastarm.
Magnolia terrace, first from Sumner avenue,	Mastarm.
Maplewood terrace, near Fort Pleasant avenue,	Mastarm.
Morningside park, opposite Trinity terrace,	Mastarm.
North End bridge,	Mastarm.
Pecousic boulevard, first south of Long Hill street,	Mastarm.
Pynchon street, opposite new City Hall,	Gooseneck.
Revere street, between No. 45 and No. 47,	Mastarm.

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Sanford street, between Market and Dwight streets,	Gooseneck.
State street, Almshouse grounds,	Top Light.
Springfield street, near first to Hospital entrance,	Mastarm.
State street, southeast corner Walnut street,	Gooseneck.
Sumner avenue, corner Allen street,	Mastarm.
Sumner avenue, first from Allen street,	Mastarm.
Sumner avenue, second from Allen street,	Mastarm.
Sumner avenue, opposite Spencer place,	Mastarm.
Sumner avenue, corner Whittier avenue,	Mastarm.
Taylor street, between Dwight and Chestnut streets,	Gooseneck.
Trinity terrace, midway,	Top Light.
White street, corner Gordon street,	Mastarm.
White street, corner Rupert street,	Mastarm.
West Alvord street, in front of No. 32,	Mastarm.
Wilbraham road, corner Rutland street,	Mastarm.
Worthington street, near No. 457,	Gooseneck.

LAMPS REMOVED DURING THE YEAR 1913.

2 Incandescent lights on Walter street near Birnie avenue.
1 Incandescent light on Donald street near Birnie avenue.
1 Arc light on Hancock street between Central and Mill streets.
3 Arc lights on State street between Main and Water streets.

ARCS AND SERIES INCANDESCENT LIGHTS PER YEAR.

	Arc Lights		Series Incandescent Lights	
	No. Installed	No. Replaced by Series Lights	No. Installed	No. Replaced by Arc Lights
1898	46		12	
1899	49		42	
1900	44			3
1901	49		3	3
1902	52		1	6
1903	34			2
1904	27		4	4
1905	42	4	20	2
1906	22	1	2	2
1907	35	1	11	
1908	22			
1909	43	5	71	
1910	85	5	70	3
1911	67	2	106	9
1912	61		83	
1913	55	1	64	

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LAMPS MOVED DURING THE YEAR 1913.

Longmeadow street, near Pecousic Brook, moved 200 feet southerly.

Belmont avenue, corner Hollywood street, moved opposite side of Hollywood street.

Liberty street, between Cass and Charles streets, moved 200 feet nearer Charles street.

Grace street, near Birnie avenue, moved corner of Birnie avenue and Grace street.

Birnie avenue, north of Walter street, moved corner of Walter and Birnie avenue.

Birnie avenue, opposite Donald street, moved southeast side Donald street and Birnie avenue.

North Main street, corner of Noble street, moved to North Main street, corner of Walter street.

Bridge street, in front of Stearns Building, moved to Bridge street, opposite Barnes, and changed to special inverted magnetite.

Crystal avenue, corner Belmont avenue, moved to Crystal avenue, opposite Belmont avenue.

Ashley street, near Pine street, moved to opposite side of Ashley street and 30 feet nearer Pine street.

Manhattan street, near Eastern avenue, moved to Manhattan street, corner of Eastern avenue.

Manhattan street, second from Eastern avenue, moved 150 feet nearer Eastern avenue.

Mechanic street, moved to corner Mechanic and Water streets.

Oak and Walnut streets, moved to corner of Walnut street and Walnut court.

North End Bridge light moved westerly to bring spacing equal after the placing of one new light.

40 Ladd street, moved to corner of Logan and Ladd streets.

Catharine street, between Pease and State streets, 250 feet nearer State street.

West street, near Plainfield street, 50 feet nearer Plainfield street.

Springfield street, corner Armory street, moved to Springfield street, opposite Armory street.

White street, opposite Ainsworth avenue, to White street, corner of Stratford terrace.

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REPORT

OF

FORESTRY DIVISION

FOR FISCAL YEAR ENDING NOVEMBER 29, 1913

SPRINGFIELD, MASS., December 31, 1913.

F. H. Clark, Superintendent, Department of Streets and Engineering.

DEAR SIR:—I have the honor to submit herewith the sixteenth annual report of the Forestry Division of the Department of Streets and Engineering for the fiscal year ending November 29, 1913.

Since taking charge of the Forestry Division, April 1, 1913, I have made no radical changes in the general methods of conducting the work assigned the Forestry Division. Acknowledgment is due my predecessor for his ability in perfecting these methods, and for his extended service as city Forester and warden of the shade trees on the streets of our City of Homes.

The general condition of the street trees in Springfield will compare most favorably with any city in New England. In the past and at present the citizens of Springfield, as members of the community at large as well as individual property holders, have shown a genuine interest in the planting and care of street trees. This interest assures an appreciation of the full value of the shade trees on our highways to the community, and is a guarantee of the support of those citizens in protecting and preserving our public shade trees.

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Owing to the protracted drought during the late spring and summer of 1913, the plantings of street trees were not as successful as we would have wished. Another result of the drought was the browning of the foliage of the rock maples, known as "maple scorch." The affected trees were very unsightly, and it is to be hoped that weather conditions will be more favorable in the future.

Aside from the regular routine work of this Division, of planting, pruning, and spraying, we have been called upon to remove dead and dangerous trees, trees interfering with the erection of buildings or the construction or widening of streets and driveways. There have been many calls to inspect conditions where tree roots interfered with curb setting or sidewalk construction; also to treat injuries to the trees from various causes. Injuries from severe storms and high winds, fortunately, have not occurred to any extent this season.

The control of insect pests has been very satisfactory. The elm leaf beetle, our most serious pest, did very little perceptible injury owing to the very favorable weather conditions during the spraying season and to the entirely satisfactory results obtained from the brands of insecticides used.

The woolly maple scale (*Pseudococcus aceris sign*) occurs fairly abundantly on the rock maples in certain sections, but is readily controlled by a solution of whale oil soap.

The elm bark aphis and San Jose scale have been found as minor infestations. The gypsy moth has not yet been found in Springfield. The brown-tail moth has gained a foothold and has been found in small numbers in several localities. As required by state law, thorough inspection of the entire territory within city bounds will be made. The cost of this scouting will probably increase from year to year, as it has been the experience of the towns in the eastern part of the state, that however thoroughly the work has been done, the infestation is extremely hard to stamp out completely.

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Of the four power sprayers, two are of an old style and should be disposed of and replaced with new equipment. Increased attention should be given to the phase of Forestry designated as tree surgery, the care and treatment of wounds and cavities, and tree mending.

As a very large percentage of the injury to our street trees is due to horses gnawing and vehicles striking the tree trunks, more ample provision should be made for the use of suitable tree guards.

With the recently increased authority given the Forestry Division to plan and to carry out tree planting, and considering the advantages to be derived from having nursery stock available to select from at all planting seasons, I would recommend the selection of a suitable site and the establishment of a municipal nursery.

There being no record in the office of the number, varieties, location and general condition of our street trees, and there having been no tree census in recent years, I would urge the desirability of providing for the taking of such a census the coming year.

Having used the runabout assigned me last April during the season of 1913, and owing to the increasing frequency with which the car requires repairs, I would suggest the replacement at an early date of the present runabout with a machine of a different type which would meet the requirements of the Division's needs as shown during the work of the past season.

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FINANCIAL STATEMENT.

RECEIPTS.

Appropriation,		$17,675 00

EXPENDITURES.

Forestry Proper.

Labor,	$9,439 74	
New tools and repairs,	519 87	
Mending trees, etc.,	495 43	
Fertilizer,	317 25	
Office expense,	144 22	
Building account,	84 77	
Auto maintenance and repairs,	347 79	
Tree guards,	91 13	
Trees,	502 19	
Miscellaneous,	81 25	
		$12,023 64

Entomological.

Labor,	$2,284 67	
New tools and repairs,	383 31	
Insecticides, etc.,	660 50	
		3,328 48
Balance to City Treasurer,		2,322 88
		$17,675 00

SUMMARY OF INVENTORY.

Forestry tools on hand November 30, 1912,	$709 46	
Bought in 1913,	268 23	
	$977 69	
Less 20% depreciation,	195 54	
		$782 15

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Machinery and tools for insect control,	$2,409 15	
Bought in 1913,	204 12	
	$2,613 27	
Less 20% depreciation,	522 65	
		$2,090 62
Office furniture,		65 00
Nursery stock,		300 00
		$3,237 77

Respectfully submitted,

J. ALDEN DAVIS,

Deputy City Forester.

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BOARD OF

OVERSEERS OF THE POOR

FOR 1913.

HON. JOHN A. DENISON, *Chairman.*

HENRY P. NORRIS,	*Term expires April 1, 1914.*
ARTHUR A. CALL,	*Term expires April 1, 1915.*
SYLVESTER E. RYAN,	*Term expires April 1, 1915.*
WILLIAM R. THACKER,	*Term expires April 1, 1916.*

EDWARD I. WHITE,	*Agent of the Board.*
JENNIE S. LOMBARD,	*Clerk of the Board.*
MARJORIE W. WARD,	*Stenographer.*
LYMAN W. SEXTON,	*Master of the Almshouse.*
SYLVESTER E. RYAN,	*City Physician.*
CHARLES W. HEMENWAY,	*Keeper of Wayfarers' Lodge.*

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REPORT OF THE

BOARD OF OVERSEERS OF THE POOR

FOR THE

YEAR ENDING NOVEMBER 30, 1913.

To the City Council:—

The report of the Overseers of the Poor for the year ending November 30, 1913, is as follows:—

The amount appropriated for the expense of this department was:—

General administration,	$5,950 00
Almshouse,	31,550 00
Wayfarers' Lodge,	3,500 00
Outside Relief,	14,108 00
	$55,108 00

Collections from other departments, amounting to $2,771.91, were transferred to our credit, giving us $57,879.91 available for expenses.

The total expenditure was $55,438.35, an increase of $1,242.93. The total collections and transfers for service, rendered other departments, were $19,729.93, an increase of $574.22 over the previous year. Balance unexpended was $2,441.56.

The inventory of property in our charge last year amounted to $20,474.53. This year it is $18,649.96, a decrease of $1,824.57. Our net expenditure last year was $36,325.48, this year it has been $35,708.42, a decrease of $617.06.

The following table gives the expenditure, receipts, and net cost for a series of years:—

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		Total Expenditures.	Receipts.	Net Cost.
1903		$54,654 02	$17,052 58	$37,601 44
1904		55,685 39	22,396 22	33,289 17
1905		44,388 82	10,919 75	33,469 07
1906		46,264 44	13,935 50	32,328 94
1907	(11 months)	44,433 30	14,160 36	30,272 94
1908		51,387 39	13,270 44	38,116 95
1909		52,190 29	13,943 61	38,246 68
1910		55,251 80	14,915 22	40,336 58
1911		52,549 46	13,963 82	38,585 64
1912		55,481 19	19,155 71	36,325 48
1913		55,438 35	19,729 93	35,708 42

ALMSHOUSE.

The total number of inmates for the year was 480, an increase of 10; the average number was 129, an increase of 3 over the previous year.

The total expense at the Almshouse was $30,670.92, average weekly cost $4.01 ($4.29 in 1912).

The high standard of the institution has been maintained.

During the year a modern heating and lighting plant has been installed, in a new building, centrally located with reference to present buildings and others which are likely to be constructed in the future. This plant will heat and light the Almshouse and hospital, also the Isolation Hospital. The laundry now in use will be turned over to the Board of Health and used by the Isolation Hospital. The old power house will be fitted up as a laundry for the Almshouse. This arrangement will result in a greater convenience for all concerned. The expense for these improvements has been met by a special appropriation. About $38,000.00 has already been expended. The total cost, when completed, will amount to about $48,000.00

The City Physician has made 297 visits to the institution during the past year.

The products of the farm in 1912 were valued at $4,040.61.

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Those for the past year amounted to $4,245.82. They were as follows:—

20 bushels spinach at $1	$20 00
50 bushels peas at $1.50	75 00
20 bushels string beans at $1.50	30 00
20 bushels shell beans at $2	40 00
10 bushels lima beans at $2	20 00
Sweet corn	75 00
Cucumbers	5 00
10 bushels tomatoes at $1	10 00
40 bushels beets at 80 cents	32 00
85 bushels turnips	34 00
340 bushels potatoes at $1	340 00
41,451½ quarts milk at 5 cents	2,072 55
24,555 lbs. hay at $20	491 00
2,000 cabbages at 5 cents	100 00
Ensilage	150 00
Beef sold	135 00
Pork sold	583 27
Veal sold	33 00
	$4,245 82

OUTDOOR RELIEF.

The expenditure for the years 1912 and 1913 is as follows:—

	1912.	1913.
Disbursed direct to poor by agent	$10,284 34	$10,319 31
Paid to hospitals in Springfield	2,187 35	2,666 12
Paid to other cities and towns for Springfield poor	1,045 62	1,032 14
Paid to state hospitals	320 64	260 50
	$13,737 95	$14,278 07

The above figures show a slight increase, which has been largely due to recent legislation, to wit: The law relating to school attendance and the employment of minors (Chapter

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779, Acts of 1913) and that relating to the hours of labor for women and children (Chapter 758, Acts of 1913), also several miscellaneous acts in connection therewith, together with the Act to provide for suitably aiding mothers with dependent children (Chapter 763, Acts of 1913), have placed additional burdens upon this Board and will call for a considerable increase in expenditure in the coming year. These Acts took effect September 1, 1913, and have not been in force long enough to allow us to arrive at any just conclusions regarding them. It is very evident, however, that they have already increased our expenditure and will continue to do so.

We began to disburse aid to mothers with dependent children (under Chapter 763, Acts of 1913) the latter part of October and the amount given to November 30 was $147.00. At the present writing, December, 1913, we are aiding these mothers at the rate of $215.00 per week in groceries, fuel, and cash, beside clothing, shoes, etc. It will be necessary to add to this amount from time to time as new cases are taken on. The law provides for aid to mothers with dependent children under 14 years of age, if such mothers are fit to bring up their children. The aid furnished shall be sufficient to enable the mothers to bring up their children properly in their own homes; and such mothers and their children shall not be deemed to be paupers by reason of receiving aid as aforesaid. There is a popular belief prevalent that $2.00 per week shall be allowed to each child, which is incorrect, the amount of aid in each instance being left to the discretion of the Overseers of the Poor, subject to the supervision of the State Board of Charity. The law further provides that the State shall reimburse, after approval of the bills by the State Board of Charity, for the full amount of aid given to families who have no settlement, and one third of the amount given to those who have a settlement in any city or town in the Commonwealth.

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LOCAL HOSPITALS.

A comparative statement for the past two years is as follows:—

	1912.	1913.
Mercy Hospital	$1,245 85	$1,686 37
Springfield Hospital	941 50	942 75
Wesson Memorial Hospital		10 00
First Aid Hospital		27 00
	$2,187 35	$2,666 12

In February, 1913, the hospitals increased their ward rates for city patients, the Springfield Hospital to $10.50 per week and the Mercy Hospital to $10.00 per week. This has caused additional outlay on account of hospital cases. The State authorities refuse to allow over $7.00 per week for reimbursement of their own cases in these hospitals. The law states that "The reasonable expense which is incurred by a city or town shall be reimbursed by the Commonwealth." It is our opinion that $10.00 per week is a reasonable expense for hospital care, and would suggest that if this matter cannot be satisfactorily adjusted otherwise, that it be settled in the Courts. Heretofore we have received $5.00 per week for the care of State patients at the Almshouse Hospital, while the cost has been at least $7.00 per week. By the provisions of Chapter 797, Acts of 1913, the allowance for these cases was changed to $7.00 per week beginning December 1, 1913.

WAYFARERS' LODGE.

The number of tramps lodged was 732, as against 1,180 in 1912. The sales of wood increased somewhat, there being a greater demand than usual. The profits never meet the expenses and this year additional expenditure has been necessary for new equipment. The financial statement is as follows:—

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RECEIPTS.

Appropriation	$3,500 00		
Transfers	1,342 21		
		$4,842 21	
Wood on hand November 1, 1912		246 75	
Cash sales		2,241 00	
Accounts receivable		251 48	
			$7,581 44

EXPENDITURES.

Salary of keeper and teamster	$1,503 50		
Paid for wood	2,536 95		
Paid for provisions, supplies, etc.	516 76		
New equipment	285 00		
Wood delivered to the poor	255 50		
		$5,097 71	
Wood and supplies on hand November 1, 1913		1,032 95	
Profit and loss		1,450 78	
			$7,581 44

Respectfully submitted,

ARTHUR A. CALL,
HENRY R. NORRIS,
WM. R. THACKER,
SYLVESTER E. RYAN,

Overseers of the Poor.

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STATISTICS

RECEIPTS AND TRANSFERS.

	Receipts.	Transfers.	
From appropriation			$55,108 00
Various cities and towns:—			
Almshouse care $2,661 52			
Outside relief 2,452 16			
	$5,113 68		
The Commonwealth, for temporary aid, care of sick and transportation:—			
Almshouse care $1,139 45			
Outside relief 4,157 29			
	5,296 74		
Isolation Hospital, for lighting, heating, ambulance service		$2,405 50	
Isolation Hospital, for care of persons sick with contagious diseases		288 99	
Soldiers' Relief, for care of the sick at hospitals		77 42	
			2,771 91
Individuals for care at hospitals and aid reimbursed:—			
Almshouse care $3,394 33			
Outside relief 115 34			
	3,509 67		
Sale of farm products	806 95		
Sale of wood	2,231 00		
	*$16,958 02		$57,879 91

* Amount of receipts turned in to the Estimated Revenues of the City.

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EXPENDITURES.

For the support of persons at the Almshouse	$30,670 92
Outdoor relief, not including hospital expenses	11,351 45
The support of patients in the local hospitals	2,666 12
The State Infirmary	76 50
The State Hospital School, Canton	184 00
Salaries	5,195 50
Miscellaneous expenses	451 65
Wayfarers' Lodge	4,842 21
	$55,438 35
Balance unexpended	2,441 56
	*$57,879 91

* $200.00 greater in Treasurer's report represents amount advance for office expenses and returned to the Treasurer at the end of the year.

ALMSHOUSE.

Number of persons in Almshouse November 1, 1912	127
Number admitted during the year	353
Total number of inmates	480
Number discharged	350
Number remaining October 31, 1913	130
Average number of inmates	129

OUTDOOR RELIEF.

The total number aided was:—

Having a settlement in the city	783
Having a settlement elsewhere	309
Having no settlement	503
	1,596

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The number of persons aided the first time was:—

Having a settlement in the city	378
Having a settlement elsewhere	148
Having no settlement	301
	827

EXPENSES OF OUTDOOR RELIEF.

(Including hospital aid.)

Persons having a settlement in the city	$8,346 14
Persons having a settlement elsewhere	2,201 04
Persons having no settlement	3,730 89
	$14,278 07

The total number of persons aided during the year was 2,076.

Sixty-one persons have been sent to the State Infirmary at Tewksbury.

Seven hundred and thirty-two tramps were lodged during the year.

Sixty-one persons have been aided who were non-residents but had a settlement here.

Eighty-one notices were received from various cities and towns and the State, of aid rendered to persons whose settlement was claimed in this city.

The City Physician made 592 visits to the poor in their homes.

INVENTORY.

Almshouse:—	
Furniture, fixtures, and farm tools	$7,917 45
Provisions and supplies	4,989 36
Horses, cows, and other live stock	2,842 00
Office furniture and fixtures	843 45

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Wayfarers' Lodge:—

Wood	$1,009 95
Fixtures	849 75
Horse	175 00
Supplies	23 00
	$18,649 96

The above inventory does not include the new furnishings in the office of the Administration Building.

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STATEMENT OF EXPENDITURES IN 1912-1913.

Outdoor Relief.

	Cash.	Transportation.	Fuel.	Provisions.	Clothing.	Medicine and Medical Supplies.	Paid Cities and Towns.	Burials.	Hospital School, Canton.	State Infirmary.	Springfield Hospital.	Mercy Hospital.	Wesson Hospital.	First Aid Hospital.	Totals.
November,	$45 05	$29 39	$199 06	$470 25	$32 37	$14 40	$47 61	$63 00	.....	$19 50	.....	.....	.....	.....	$920 63
December,	39 50	6 33	243 60	527 75	44 35	63 60	32 00	8 00	$52 00	.....	.....	.....	.....	.....	1,017 13
January,	95 00	27 14	245 33	683 71	97 07	67 65	180 64	10 00	.....	17 00	$102 00	.....	.....	.....	1,525 54
February,	65 00	34 84	342 72	595 35	33 45	32 05	44 25	20 00	40 57	.....	.....	.....	.....	.....	1,208 23
March,	43 50	16 49	261 40	559 53	65 01	57 10	35 00	15 00	.....	.....	256 50	.....	.....	.....	1,309 53
April,	55 50	15 99	11 28	441 90		82 10	.....	25 00	.....	.....	.....	.....	$10 00	$27 00	681 59
May,	68 75	1 65	.....	496 12	30 67	35 45	261 75	100 00	.....	40 00	175 00	$619 86	.....	.....	1,829 25
June,	42 75	41 50	.....	402 80	26 33	55 60	90 65	7 00	52 57	.....	.....	.....	.....	.....	719 20
July,	58 18	21 84	.....	507 65	8 49	43 25	289 78	95 00	.....	.....	.....	.....	.....	.....	1,024 19
August,	43 85	9 12	.....	561 77	37 16	30 00	.....	57 00	.....	.....	99 50	.....	.....	.....	838 40
September,	34 00	48 41	.....	549 98	81 21	56 45	7 60	54 00	38 86	.....	152 25	.....	.....	.....	1,022 76
October,	67 35	10 61	7 50	743 17	45 72	40 40	42 86	.....	.....	.....	157 50	1,066 51	.....	.....	2,181 62
	$658 43	$263 31	$1,310 89	$6,539 98	$514 65	$578 05	$1,032 14	$454 00	$184 00	$76 50	$942 75	$1,686 37	$10 00	$27 00	$14,278 07

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STATEMENT OF EXPENDITURES IN 1912–1913.—CONTINUED.

ALMSHOUSE.

	Maintenance.	Salaries.	Furniture and Repairs.	Totals.
November,	$922 11	$824 17	$74 87	$1,821 15
December,	963 59	834 46	103 33	1,921 38
January,	1,628 84	840 92	162 96	2,632 72
February,	1,039 44	948 63	116 11	2,104 18
March,	1,702 64	861 46	114 49	2,678 59
April,	1,183 20	832 61	132 21	2,148 02
May,	2,202 69	787 66	102 47	3,092 82
June,	992 35	892 09	41 09	1,925 53
July,	1,333 03	942 41	50 82	2,326 26
August,	1,203 32	1,285 56	157 46	2,646 34
September,	1,637 37	903 65	101 90	2,642 92
October,	3,332 08	928 22	470 71	4,731 01
	$18,160 66	$10,881 84	$1,628 42	$30,670 92

MISCELLANEOUS.

	Salaries.	General Administration.	Totals.	Wayfarers' Lodge.
November,	$428 84	$34 85	$463 69	$403 84
December,	428 84	18 85	447 69	1,209 05
January,	428 84	29 85	458 69	827 58
February,	428 84	34 81	463 65	442 63
March,	428 84	48 51	477 35	190 98
April,	435 34	44 69	480 03	629 76
May,	437 32	32 50	469 82	166 43
June,	433 32	41 08	474 40	163 10
July,	437 32	44 82	482 14	188 20
August,	435 32	37 74	473 06	2 50
September,	435 32	54 66	489 98	180 02
October,	437 36	29 29	466 65	438 12
	$5,195 50	$451 65	$5,647 15	$4,842 21

TOTALS.

	Outdoor Relief.	Almshouse.	General Administration.	Wayfarers' Lodge.	Grand Totals.
November,	$920 63	$1,821 15	$463 69	$403 84	$3,609 31
December,	1,017 13	1,921 38	447 69	1,209 05	4,595 25
January,	1,525 54	2,632 72	458 69	827 58	5,444 53
February,	1,208 23	2,104 18	463 65	442 63	4,218 69
March,	1,309 53	2,678 59	477 35	190 98	4,656 45
April,	681 59	2,148 02	480 03	629 76	3,939 40
May,	1,829 25	3,092 82	469 82	166 43	5,558 32
June,	719 20	1,925 53	474 40	163 10	3,282 23
July,	1,024 19	2,326 26	482 14	188 20	4,020 79
August,	838 40	2,646 34	473 06	2 50	3,960 30
September,	1,022 76	2,642 92	489 98	180 02	4,335 68
October,	2,181 62	4,731 01	466 65	438 12	7,817 40
	$14,278 07	$30,670 92	$5,647 15	$4,842 21	$55,438 35

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REPORT

OF THE

COMMITTEE ON STATE AND MILITARY AID AND SOLDIERS' RELIEF

SPRINGFIELD, MASS., December 4, 1913.

To the City Council of the City of Springfield.

GENTLEMEN:—The Committee respectfully submits to your honorable body the following tabulation of disbursements made in its several branches of relief during the past fiscal year, in comparison with the two years immediately preceding:—

	1913.	1912.	1911.
State Aid, Civil War	$11,536 00	$13,037 00	$13,082 00
State Aid, war with Spain	120 00	146 00	132 00
Military Aid, war with Spain	38 00	106 00	70 00
Soldiers' Relief actually disbursed	3,966 39	4,035 64	3,802 59
Charges to other municipalities	24 70	122 10	161 87
Repaid by recipients		24 00	42 00
Salary and incidental expenses	752 42	625 03	618 34

Recipients of State and Military Aid on rolls at close of the fiscal year:—

Veteran soldiers	69	93	98
Widows	123	132	136
Soldiers' wives	3	3	6

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Recipients of Soldiers' Relief for the year:—

Families	25	34	37
Single persons	63	66	59
	88	100	96

These figures show a marked decrease in the number of veterans receiving State Aid, as well as a material decrease in the number of widows, so that the annual payment totals approximately $1,500 less than for recent preceding years. This decrease is due partially to the heavy mortality in this class of beneficiaries, and in part to the benefits received by the veterans of the civil war from the higher pension ratings allowed them under the Act of May 11, 1912.

Under Soldiers' Relief the same causes have operated to some extent, but the decrease in expenditure in this department has been offset by the increase caused through Chapter 323 of the Acts of 1913 of the Massachusetts Legislature, extending the provisions for Soldiers' Relief theretofore applicable only to veterans of the civil war and their dependents "to those, including army nurses, who served in the army or navy or marine corps of the United States during the war with Spain or during the Philippine insurrection between April 21 in the year 1898 and July 4 in the year 1902, and to persons dependent upon them." The full effect of this enactment is not yet apparent; but the class to which it is made applicable, under the letter of the act, is a large one, embracing as it does all volunteer and regular soldiers in the service of the government during the four-year period designated, whether their service was or was not connected with any active operations in the field. This class being of a younger generation than that heretofore in receipt of relief, needy families of children are found in a majority of cases, and the requirements for their adequate assistance involve compara-

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tively large expenditures,—more especially as the assistance of governmental pension is generally absent or at best very small.

Respectfully submitted for the Committee,

JAMES L. BOWEN,

Secretary.

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REPORT

OF THE

BURIAL AGENT

SPRINGFIELD, MASS., December 4, 1913.

To the City Council of the City of Springfield.

GENTLEMEN:—Under Chapter 475 of the Acts of 1913 of the Massachusetts Legislature, approved April 10 of the present year, Chapter 468, Section 17, Acts of 1909, was so amended as to allow the sum of fifty dollars in place of the former allowance of thirty-seven dollars for the burial of indigent soldiers, sailors, their wives, widows, dependent mothers, army nurses, etc.; forty-eight dollars to the undertaker and two dollars as a fee to the burial agent. Further provision was also made that no allowance should be approved in case the total cost of burial, by whomever paid or assumed, should exceed one hundred dollars.

The tabulated report of service rendered by the undersigned, in connection with Mr. Matthew J. Clark, appointed as burial agent for Spanish veterans, for the fiscal year just closed, in comparison with the two preceding years, may be thus summarized:—

	1913.	1912.	1911.
Soldiers buried	11*	12	13
Soldiers' wives			2
Soldiers' widows	4	7	7
Widowed mothers	1		
	16	19	22

*Civil war, 9; war with Spain, 2.

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FINANCIAL STATEMENT.

Appropriated for fiscal year		$700 00
Payments: 10 burials at $37.00	$370 00	
6 burials at $50.00	300 00	
		670 00
Balance unexpended		$30 00

Respectfully submitted,

JAMES L. BOWEN,

Burial Agent.

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REPORT

OF THE

SEALER OF WEIGHTS AND MEASURES AND INSPECTOR OF COAL

SPRINGFIELD, MASS., December 4, 1913.

To the City Council of the City of Springfield.

GENTLEMEN:—The work of this department has been carried on during the past year under conditions highly encouraging. Never before has the interest of the public been so manifest; never before so general an appreciation expressed. The people have come to understand how much the earnest, careful, continuous work of the state and local departments of weights and measures means in the way of protection, direct and indirect, to all their homes. And in this recognition there is compensation for the many times difficult and disagreeable factors which the sealer must encounter in the discharge of his duties.

The financial showing for the year may be briefly summarized:—

Regular appropriation		$2,122 00
Additional for motor vehicle		600 00
		$2,722 00
Salary paid James L. Bowen, Sealer	$525 00	
Salary paid James L. Bowen, Inspector of Coal	100 00	
Salary paid Adelbert R. Geer, Deputy Sealer	1,000 00	
Paid Adelbert R. Geer, transportation	145 83	
Paid for motor vehicle and fittings	596 53	
Water Department, rent of quarters	90 00	

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N. E. Telephone and Telegraph Co	$36 35	
Hobbs & Warren, record book	3 50	
Springfield Printing & Binding Co., printing	40 70	
W. & L. E. Gurley, supplies and apparatus	16 62	
George M. Fiske, repairing stamps	1 00	
H. Rude Co., stationery	1 00	
The Republican Co., advertising	2 95	
R. H. Smith Man'f'g Co., rubber stamps	1 45	
F. E. M. Weeks, team hire	1 25	
B. Tanner, team hire	35 35	
Smith & Hubbell Co., Inc., auto supplies and repairs	42 21	
Gulf Refining Co., gasoline	1 80	
Price & Lee Co., City Directory	5 00	
Corson Auto Co., supplies	6 93	
Standard Tire & Rubber Co., repairs	11 55	
Wilson & Graham, repairs and supplies	12 34	
Forest Park Garage, repairs and supplies	6 18	
Norcross-Cameron Co., repairs and supplies	4 25	
O. C. Alderman, hand truck	5 50	
Postage and office sundries	10 65	
		$2,703 94
Unexpended balance,		$18 06
Sealing fees collected and paid City Treasurer		$670 83

The routine work of the office is thus shown by the annual report to the state department:—

	Sealed.	Condemned.
Platform scales, over 5,000 pounds	83	26
Platform scales, under 5,000 pounds	379	46
Computing scales	361	40
Slot weighing machines	36	2
All other scales	1,511	191
Weights	1,657	4
Dry measures	45	3
Liquid measures	1,446	41
Linear measures	390	6
Measuring pumps	43	13

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Stores visited for inspection	67
Articles tested in said stores	378
Peddlers' teams inspected	450
Articles examined on teams	494
Milk wagons inspected	39
Articles examined	113
Ice tests made	347
Other articles inspected	25

In the early part of the summer the department was provided with a Ford motor vehicle, well adapted for all classes of our outdoor work except where a heavy equipment of weights is to be carried, thus supplying a need which had been seriously felt by us in the past. Thus equipped, and with the very satisfactory office rooms fitted up and now occupied by us (although not as yet fully completed), we hope to make an even better showing in the future than has been possible in the past.

INSPECTOR OF COAL.

As stated in former reports, the work of the Inspector of Coal consists principally of (1) the testing of loads of coal in transit, (2) the hearing and investigation of complaints of all kinds regarding the coal supply and its sale, and (3) oversight of the licensing of dealers in coal and coke, as provided by the state laws. The work of the past year under the first head may be thus briefly tabulated:—

Number of loads reweighed	31
Number of loads showing exact weight	8
Number of loads showing short weight	7
Number of loads showing overweight	16
Total pounds of shortage shown	350
Total pounds overweight shown	1,055
Net overweight of all loads weighed, pounds	705
Licensed coal dealers in the city, large and small	348

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In conclusion, I desire to express my appreciation of the diligent, faithful, and loyal service of Deputy Sealer Adelbert R. Geer, whose service to the city is becoming increasingly valuable with his widening experience and careful study of the problems with which he is brought in contact. My sincere thanks are due and are hereby tendered to Mayor Denison, to all members of our city government with whom my duties have brought me in contact, with Hon. Thure Hanson, State Commissioner of Weights and Measures, and his official staff,—from all of whom I have received most considerate and gratifying kindness.

Respectfully submitted,

JAMES L. BOWEN,

Sealer of Weights and Measures, and Inspector of Coal.

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ORGANIZATION OF HEALTH DEPARTMENT

BOARD OF HEALTH.

THOMAS F. REARDEN, M.D., *Chairman*,
EDGAR H. GUILD, M.D. PHILIP V. ERARD.

EDGAR H. GUILD, M.D.,
Health Physician and Bacteriologist.

WILLIAM L. YOUNG, *Agent and Clerk.*
GRACE E. WARREN, *Clerk for Agent.*

SANITARY INSPECTORS.

JACOB R. SACKETT, *Chief*,
FRANK A. MURRAY,
HENRY WRIGHT, JR.,
ALGER P. BLAINE.

INSPECTORS OF MILK.

STEPHEN C. DOWNS,
JAMES A. GAMBLE.

INSPECTOR OF VINEGAR.

STEPHEN C. DOWNS.

INSPECTOR OF ANIMALS, MEATS AND PROVISIONS. INSPECTOR OF SLAUGHTERING.

HARRY LUKES, D.V.S.

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HEALTH DEPARTMENT HOSPITAL.

1414 State Street.

EDGAR H. GUILD, M.D., *Physician in Charge.*

CONTAGIOUS DISEASES.

Visiting Physicians.

ORLAND R. BLAIR, M.D.
RALPH B. OBER, M.D.
HENRY RITTER, M.D.
CHARLES E. STREET, M.D.

TUBERCULOSIS.

Visiting Physicians.

RICHARD S. BENNER, M.D.
THOMAS F. REARDEN, M.D.
HENRY H. WILCOX, M.D.

Aurist and Laryngologist.

WILLIAM A. HARE, M.D.

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*MINNIE I. BACON, *Matron.*
ETHEL I. MINKLER, *Acting Matron.*

MEDICAL INSPECTORS OF SCHOOLS.

EDGAR H. GUILD, M.D., *Director.*

WALTER H. CHAPIN, M.D.
MICHAEL W. HARRINGTON, M.D.
JAMES P. HILLARD, M.D.
WALTER A. HOSLEY, M.D.
GEORGE T. LAMARCHE, M.D.
LAURENCE J. MCCARTHY, M.D.
RALPH B. OBER, M.D.
THOMAS F. REARDEN, M.D.
ALLEN G. RICE, M.D.
HENRY RITTER, M.D.
ERDIX T. SMITH, M.D.
CHARLES E. STREET, M.D.
EDWARD J. SWEENEY, M.D.

SCHOOL NURSES.

MARGUERITE ARMSTRONG.
MARY A. HICKEY.

---

*Deceased.

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THIRTY-SECOND ANNUAL REPORT

OF THE

BOARD OF HEALTH

To His Honor, the Mayor, and Members of the City Council.

GENTLEMEN: The Board of Health hereby submits the report of the different divisions of the Health Department for your consideration and approval.

THE VALUE OF PUBLIC HEALTH.

The annual report of the Board of Health not only deals with the procedures of the different divisions of the Health Department, for the year, but calls attention to some of the larger problems of public health work, which are being considered as essential features of activity in all communities as they increase in population. Fads and theories find their enthusiastic advocates in matters concerning the public health and it is sometimes difficult to discriminate as to measures which will stand the test of practical operation and those which only burden a department with unnecessary and useless effort as well as incurring uncalled for inconvenience upon the individual. The enlargement of health department activities depends on the character of the organization, the health problems to be solved, co-operation of the public at large, as well as the medical profession, and the financial support which can be obtained in carrying out proposed enlargements. It requires liberal expenditures of money to protect the public health and results may be expected only in proportion to the amount expended.

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The great diversity of movements organized by individual efforts for the better protection of the public health and the eradication of disease emphasize the statement that the health of a community is its best and most enduring asset. Wealth and prosperity cannot be estimated in money values alone and the relation which exists between the real wealth and prosperity of a city and the measures which are taken to safeguard and protect the lives and health of its inhabitants is becoming more fully recognized, and as a consequence public opinion, legislative enactments, and extension of Board of Health activities are continually bringing into prominence the broader significance of this relation. The value of public health also takes on a new meaning when looked at from an economic standpoint. The total assessed property valuation of the city for 1913 is $140,000,000. The population in round numbers is 100,000. Each life has a definite legal estimated value of $5,000, or a total value of $500,000,000, making a grand total of $640,000,000, and there should not be any doubts as to the rights and interest of the human factor which comprises 80% of the total valuation. If it is good business judgment for life insurance companies to expend large sums of money in protecting the lives of the insured in order that the expectancy of life may be reached by the policyholders, it certainly should be equally important for the city to utilize every well recognized means of protecting the health of those who constitute such a large element in the total estimated real wealth of the community. The total number of deaths for 1913 was 1,464. One hundred and fifty-four died from diseases dangerous to the public health and of a preventable nature. A reduction of 10% in the number of deaths, which is a reasonable expectation, represents an important saving of lives for continued usefulness and as such demands serious consideration by those who have the broader interests of this great corporation at heart. It is estimated that sickness

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accounts for 20% of those requiring public aid, which, through the maintenance of departments for their care, demand the expenditures of large sums of money, which will only be held in check by a general improvement in health with corresponding capacity for self-support. Efficiency in all public or private work is now a prominent consideration, and while it is finally measured by results obtained, methods of procedure have much to do with the systematic execution of the work. Results in health work are indicated by the general death rate, the occurrence of cases and deaths from diseases dangerous to public health, and the infant mortality. It is very gratifying to be able to say that in all the above respects the city of Springfield occupies an enviable position. The actual death rate for 1913 is 12.64 per thousand population. The corrected infant mortality is 100 per 1,000 births, exclusive of stillbirths, and as far as statistics are available they are as low as any city in the same population class. In order to maintain this position there must be continual advancement all along the line of sanitation and hygiene, and the efforts of every agency bearing upon the health of the city should be carried on with renewed vigor. The campaign against tuberculosis is producing splendid results and the record of the year should act as a great stimulus to further extension of the work. The child welfare work is to be encouraged in every possible way to still further reduce the infant mortality. The movement for better housing conditions is not a charitable movement in any sense of the word, but is based on the undoubted value of human life and its right of protection in the home, which a great majority are financially unable to own for themselves and are compelled to occupy at such terms as are within their means. So it may be fairly said that public health is one of the business enterprises of the city and that the protection and preservation of human life to the highest degree possible is second in

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importance to no other matter and the prominent position already given it should be maintained by such expenditures as may be necessary, for it is well proven that public health is a purchasable commodity, but is only secured by consistent effort along all the different lines which either directly or indirectly have a bearing on the health of the community.

TRANSACTIONS AND GENERAL WORK OF THE DEPARTMENT.

The organization of the department appears at the beginning of the report. Jacob R. Sackett was appointed chief sanitary inspector. Dr. Harry Lukes was appointed inspector of slaughtering. The salaries of school inspectors were increased to $500 per year. Alger P. Blaine was appointed sanitary inspector. Marguerite Armstrong and Mary A. Hickey were appointed school nurses. Dr. William J. Leonard, who had served on the hospital staff for ten years, resigned with a record of faithful and skillful service in the contagious wards of the hospital, which was thoroughly appreciated by the Board and deserving the highest praise. Dr. Ralph B. Ober was appointed in his place. Dr. Richard S. Benner resigned as medical inspector and Dr. E. J. Sweeney was appointed to the vacancy. The smallpox hospital was destroyed by fire July 12, 1913, and the Board voted to request the city council for authority to procure plans for a new building. Rule 7 of the Milk Regulations was amended and reads as follows:—

"No milk shall be delivered in bottles to any place where scarlet fever, diphtheria or typhoid fever exists. Any consumer desiring bottled milk may provide individual receptacles in which the milk can be poured by the dealer, who shall retain the empty bottle. Any dealer disobeying this regulation will have his license suspended or revoked."

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The Board gave a hearing to citizens of Ward 1, relative to the cleaning of cellars flooded by high water.

The method used in disposal of sewage at the House of the Good Shepherd was considered unsatisfactory on account of the danger of contamination of waters furnishing the ice supply of the city, and was judged a nuisance with orders for abatement.

New stable regulations were adopted.

The employees of the Carter Knitting Company, Morris Street, were ordered vaccinated, owing to exposure of one of their number to smallpox.

The inspection and clerical work is continually increasing and it is important that the Agent of the Board should have the necessary assistance in order to produce results which are being expected of health officials at the present time. Two inspectors, a clerk, and a department nurse should be added to the present force this year.

SUMMARY OF THE GENERAL WORK OF THE DEPARTMENT.

Complaints Investigated and Cause Removed.

Alleys, filthy,	16
Animals, dead in yard,	12
Animals, dead in street,	7
Animals, kept in house,	8
Ashes and rubbish in yard,	57
Barber shops, insanitary,	3
Buildings, foul odor in,	18
Burying animals,	2
Cellars, water in,	8
Cellars, filthy,	8
Cesspools, overflowing,	22
Cesspools, cleaning unlawfully,	3
Committing nuisance,	20
Complaints investigated, no cause found,	37
Contagious diseases, suspected cases,	24

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Contagious diseases, failure to observe rules relative to,	39
Dumping grounds, papers and rubbish blown from,	2
Dumping grounds, foul odor from,	14
Dumping rubbish unlawfully,	10
Factories, no cuspidor and medical chest,	2
Fish and meat markets, foul odor from,	7
Fowls kept in house,	4
Fowls kept in cellar,	8
Garbage, burning,	2
Garbage in cellar,	7
Garbage thrown on ground,	41
Garbage, insanitary receptacle,	34
Garbage in house,	4
Gas house refuse draining into river,	7
Halls and stairways, filthy,	2
Lodging house, beds dirty,	2
Manure heaps, foul odor from,	24
Milk, adulteration of,	38
Milk, illegal bottling of,	24
Milk, contaminated,	38
Milk, unclassified,	169
Plumbing; insanitary	25
Poultry yards as a nuisance,	32
Privy vaults, foul odors from,	21
Reduction plants, foul odors from,	8
Rendering plants, foul odors from,	4
Sewer drains, stoppage of,	11
Sewer drainage in cellar,	9
Sewer draining into brook,	6
Sewer openings, foul odor from,	2
Slaughtering without a license,	2
Slops thrown on ground,	7
Stables, no receptacle for manure,	7
Stables, filthy,	10
Stables, foul odors from,	38
Stables, occupied without a license,	13
Standing water, foul odor from,	19
Stores, refuse not removed,	19
Street sweepings in yard,	3
Street, dirty,	3

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Surface, sink drains,	12
Swine, filthy pens,	5
Swine, keeping without a license,	2
Tenements, filthy,	14
Tenements, insanitary,	3
Tenements, overcrowded,	2
Turkish bath, filthy,	2
Unclassified,	47
Water closets, filthy,	20
Water closets, foul odors from,	9
Water closets, frozen,	2
Water closets, insufficient number,	3
Water closets, without water,	19
Yards, filthy,	58
Total complaints,	1,157

SANITARY INSPECTIONS.

Alleyways,	528
Bakeries,	455
Barber shops,	149
Brooks,	16
Candy manufacturies,	10
Cellars,	288
Cesspools,	44
Dumps,	69
For enforcement of Polluted Water Regulations,	23
Houses,	644
Lodging houses,	41
Restaurants,	34
Stables,	2,356
Stores,	57
Unclassified,	47
Vaults,	128
Water closets,	230
Yards,	16,119
Total inspections,	21,238

MISCELLANEOUS.

Applications for stable license,	356
Stable licenses granted,	112

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Given leave to withdraw,	141
Pending,	103
Written notices to remove nuisances,	180
Notices served,	93
Prosecutions,	4
Convictions,	4
Fines imposed,	$80
Vaults and cesspools abolished, sewer connection ordered,	12
Nuisances abated by Board of Health, expense charged to owners,	12
Houses fumigated,	541
Rooms fumigated,	1,139

DISEASES DANGEROUS TO THE PUBLIC HEALTH.

The State Board of Health declares the diseases which are considered dangerous to the public health and the Statutes require that every disease so named shall be reported to the local Board of Health. As these diseases are of a preventable nature, the importance of early diagnosis and prompt notification is readily understood as it is easier to control such diseases at their outset rather than later on when they assume the proportions of an epidemic. The method adopted in the management of these diseases has been described in previous reports, and further experience warrants the belief that for all practical purposes the statement that diseases are transmitted by persons and not by things is a satisfactory position to assume. Terminal disinfection is employed, however, for various reasons. To what extent it prevents the occurrence of secondary cases it is impossible to state, but in the present condition of the entire matter and the demand on the part of the public for fumigation after the termination of a contagious disease, it seems advisable to continue the work. Formaldehyde gas generated by lime and sulphate of aluminum is the present method used. A circular giving general information and instruction concerning the prevention and care

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of contagious diseases with use of disinfectants is given to every family when the house is placarded and sent by mail to all other reported cases which are not placarded. Exclusion from school of children exposed to the different infectious diseases is based on the incubation period as far as it is possible to decide. Children having had measles, chicken pox, or mumps are not excluded from school on the occurrence of these diseases in other members of the family. Wage earners are not prevented from following their occupations as a rule. Isolation requirements are insisted upon and enforced by frequent visits of the inspector, but when it seems impossible to secure proper isolation of the patient not only the inspector, but the attending physician, urges the removal of the patient to the department hospital. Forcible removals have not been found necessary and the removal of patients in a dying condition is not encouraged.

TUBERCULOSIS.

Tuberculosis is diminishing in the city if the statistics collected are reliable, and it is safe to say that at the present time 95% of all cases are reported. This is due to the general agitation concerning the contagious nature of the disease, the importance of early diagnosis, and the advantages of hospital or sanatorium treatment. One hundred and twenty-five cases were reported during the year with seventy-three deaths from pulmonary tuberculosis, and twenty-six deaths from all other forms, as against 166 cases and 101 deaths in 1912. This diminution of reported cases is extremely gratifying and should furnish all the incentive needed for future effort. The educational features of the work which aim at the prevention of tuberculosis are being taken up by the anti-tuberculosis association and should receive the hearty co-operation of every one. The work of the society in the active care and management of the disease is highly appreciated

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and it is hoped that the public at large will maintain this association by liberal financial support. Other agencies are of great value in the campaign against tuberculosis and it is from combined effort in all matters connected with the public health that results like these are to be continued and obtained from year to year, not only in tuberculosis, but in all other diseases influenced by conditions of living, such as overcrowding, lack of sunlight, and fresh air, which, along with poverty and ignorance, lowers the individual resistance to the invasion of the germs of disease.

The tuberculosis ward at the department hospital is serving a most excellent purpose, not only for advanced and indigent cases, but as a temporary accommodation for patients awaiting admission to the different sanatoria. The city expended for the local care of tuberculosis outside of the hospital $1,524.14, for care in sanatoria $3,529.35, and as near as can be estimated the cost of maintenance of the tuberculosis wards of the health department hospital was $12,539.54, making a total for the year of $17,593.03, or 36.1% of the entire expenditures of the department. In addition to the notification record a follow-up system is now in operation and complete histories in all cases of tuberculosis will shortly be procured and nursing supervision established which will place the entire work on a more systematized basis. All deaths from tuberculosis are indicated by streets on spot maps. The work is being developed along such lines as will render it feasible to assume entire active direction of the campaign at such time in the future as the tuberculosis association may desire and the new policies of the association assume more definite outlines.

The city maintains an open-air school accommodating thirty-five pupils and the number of open window rooms is increasing. A clinic has been maintained by the tuberculosis association which has met the approval of the State Board of Health.

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DIPHTHERIA.

One hundred and ninety-one cases of diphtheria were reported during the year with sixteen deaths, giving a case mortality of 8.4%. The number of cases in 1912 was 131 with fifteen deaths, giving a case mortality of 12.2%. These figures would indicate that diphtheria has been of a milder type during the year and the records also point to a slight illness in many cases in which the bacteriological diagnosis was positive. There were twelve secondary infections, chiefly from unrecognized original cases or lack of care in observing the rules of the department. Nasal diphtheria has been detected more frequently and is watched for very carefully by the school inspectors. No infecting cases have been traced to the hospital and no secondary cases have occurred after disinfection. Seventy-five cases occurred in children under five years of age, twenty-five in those over twenty years of age. Five cases only were found attending school by the school inspectors.

REPORTED CASES OF DIPHTHERIA BY AGE PERIODS.

Age Periods.	1913.	Age Periods.	1913.
Under 1	4	35–39	0
1–4	67	40–44	1
5–9	72	45–49	1
10–14	15	50–54	2
15–19	10	55–59	0
20–24	10	60–64	0
25–29	7	65–69	0
30–34	2		

SCARLET FEVER.

One hundred and eighty-one cases were reported with only three deaths, giving a case mortality of 1.6%. The mild type of the disease rendered the diagnosis difficult in

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many cases, and fewer cases were removed to the hospital than usual. Unrecognized cases have without doubt accounted in a measure for the continuation of the disease. Nine secondary cases occurred, three of them in one family.

TYPHOID FEVER.

Eighty-one cases of typhoid fever were reported during the year with twenty deaths. Fourteen of these deaths were of non-residents brought to local hospitals for treatment and are excluded from the case mortality, which is 7.4% for the city. The sources of infection as far as could be learned were as follows: Eleven imported cases and twenty-seven cases were away from the city within thirty days of the first symptoms; five secondary cases; thirty cases in which the source of infection could not be traced; eight cases occurred on one milk route. The history of these cases would not indicate that the infection came from the milk supply. In four of the cases no source of infection could be discovered and no cases were traceable to the city water supply.

OPHTHALMIA NEONATORUM.

Fourteen cases were reported during the year and sixty-seven cases of inflamed eye. Four cases were removed to the hospital where a ward for the special care of ophthalmia is maintained. No loss of eyesight occurred from this disease. The cases of inflamed eyes were reported chiefly by the maternity hospitals, where they are very careful in complying with the requirements of the Statute. These cases recover in a few days and not being of a specific nature have been the cause of much trouble and misunderstanding on the part of physicians as to the proper interpretation of the law as well as the responsibility of the Board of Health in caring for them.

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OTHER DISEASES DANGEROUS TO THE PUBLIC HEALTH.

Poliomyelitis still remains in a sporadic form. Twelve cases were reported with one death. Two cases were removed to the department hospital. No special study of the disease has been made during the year. Isolation for four weeks is required and every precaution taken to prevent its possible transmission by flies or other insects.

Measles and chicken pox have shown a small increase in reported cases.

Whooping cough decreased from 100 cases in 1912 to thirty-eight cases in 1913, with six deaths, giving a case mortality of 16%. The high mortality which prevails in this disease makes it one of the most fatal diseases affecting children under five years of age.

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TABLE SHOWING REPORTED CASES OF COMMUNICABLE DISEASES BY MONTHS.

Diseases.	Jan.	Feb.	Mch.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Actinomycosis	....	....	....	....	....	....	....	....	....	....	....	....	....
Asiatic Cholera	....	....	....	....	....	....	....	....	....	....	....	....	....
Cerebro - Spinal Meningitis	....	....	....	1	3	....	....	....	....	....	....	....	4
Diphtheria	16	8	20	13	17	8	7	12	9	29	27	25	191
Glanders	....	....	....	....	....	....	....	....	....	....	....	....	....
Leprosy	....	....	....	....	....	....	....	....	....	....	....	....	....
Malignant Pustule	....	....	....	....	....	....	....	....	....	....	....	....	....
Measles	52	106	145	135	81	62	15	4	2	7	5	3	617
Ophthalmia Neonatorum	1	1	2	2	2	....	1	1	1	1	1	1	14
Scarlet Fever	21	36	27	33	18	10	4	6	7	7	7	5	181
Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....
Tetanus	....	....	....	....	....	....	....	....	....	....	....	....	....
Trachoma	....	....	....	....	....	....	....	....	....	1	....	....	1
Trichinosis	....	....	....	....	....	....	....	....	....	....	....	....	....
Tuberculosis	12	5	16	18	9	10	18	18	7	2	6	9	125
Typhoid Fever	8	1	2	....	1	3	6	32	8	10	3	7	81
Typhus Fever	....	....	....	....	....	....	....	....	....	....	....	....	....
Varicella	9	15	18	7	7	5	....	1	1	6	5	7	81
WhoopingCough	2	5	6	7	6	2	2	4	....	1	3	....	38
Yellow Fever	....	....	....	....	....	....	....	....	....	....	....	....	....
Anterior Poliomyelitis	....	....	....	....	1	....	2	1	4	3	1	....	12
Inflamed Eyes	....	....	3	9	6	12	8	5	2	6	7	9	67
Totals	121	177	239	225	151	112	63	79	41	73	65	66	1412

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TABLE SHOWING REPORTED CASES OF COMMUNICABLE DISEASES 1913 BY WARDS.

Diseases.	Wards.								
	1	2	3	4	5	6	7	8	Totals.
Actinomycosis	....	....	....	....	....	....	....	....	....
Asiatic Cholera	....	....	....	....	....	....	....	....	....
Cerebro-Spinal Meningitis	....	....	....	2	....	1	....	1	4
Diphtheria	81	17	10	3	20	16	13	31	191
Glanders	....	....	....	....	....	....	....	....	....
Leprosy	....	....	....	....	....	....	....	....	....
Malignant Pustule	....	....	....	....	....	....	....	....	....
Measles	159	18	13	12	101	87	155	122	617
Ophthalmia Neonatorum	5	1	1	2	3	1	....	1	14
Scarlet Fever	52	20	2	2	12	14	56	23	181
Smallpox	....	....	....	....	....	....	....	....	....
Tetanus	....	....	....	....	....	....	....	....	....
Trachoma	1	....	....	....	....	....	....	....	1
Trichinosis	....	....	....	....	....	....	....	....	....
Tuberculosis	23	18	9	8	13	17	14	23	125
Typhoid Fever	18	14	1	6	8	4	23	7	81
Typhus Fever	....	....	....	....	....	....	....	....	....
Varicella	21	3	4	4	6	6	19	18	81
Yellow Fever	....	....	....	....	....	....	....	....	....
Whooping Cough	3	5	....	1	3	1	18	7	38
Anterior Poliomyelitis	5	1	....	3	....	1	....	2	12
Inflamed Eyes	18	....	....	44	....	1	1	3	67
Totals	386	97	40	87	166	99	299	238	1412

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TABLE SHOWING REPORTED CASES AND DEATHS OF COMMUNICABLE DISEASES BY YEARS WITH POPULATION.

Diseases.	1908. 81,425		1909. 84,237		1910. 88,926		1911. 92,048		1912. 96,973		1913. 100,877	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Actinomycosis	....	....	....	....	....	....	....	....	....	....	....	....
Asiatic Cholera	....	....	....	....	....	....	....	....	....	....	....	....
Cerebro-Spinal Meningitis	1	2	1	1	3	3	1	1	2	4	4	....
Diphtheria	287	24	328	33	336	38	132	9	131	15	191	16
Glanders	....	....	....	....	....	....	....	....	....	....	....	....
Leprosy	....	....	....	....	....	....	....	....	....	....	....	....
Malignant Pustule	....	....	....	....	....	....	....	....	....	....	....	....
Measles	92	1	324	7	551	12	536	10	598	9	617	9
Ophthalmia Neonatorum	1	....	7	....	12	2	15	....	18	....	14	....
Scarlet Fever	173	8	138	24	155	19	179	2	126	2	181	3
Smallpox	....	....	....	....	....	....	....	....	....	....	....	....
Tetanus	2	3	1	....	5	4	5	1	....	....	....	....
Trachoma	....	....	....	....	....	....	....	....	2	....	1	....
Trichinosis	....	....	....	....	....	....	....	....	....	....	....	....
Tuberculosis	91	82	106	101	137	87	165	101	166	101	125	99
Typhoid Fever	90	22	57	11	73	13	73	18	98	15	81	20
Typhus Fever	....	....	....	....	....	....	....	....	....	....	....	....
Varicella	52	1	121	....	57	....	113	....	72	....	81	....
Yellow Fever	....	....	....	....	....	....	....	....	....	....	....	....
Whooping Cough	16	2	59	3	106	23	153	13	100	13	38	6
Anterior Poliomyelitis	....	....	....	....	130	25	8	1	43	10	12	1
Inflamed Eyes	....	....	....	....	....	....	....	....	7	....	67	....
Totals	805	145	1142	180	1575	222	1380	156	1363	169	1412	154

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TABLE SHOWING DEATH RATE OF TUBERCULOSIS FROM 1890, ESTIMATED ON POPULATION.

YEAR.	POPULATION.	DEATHS.	RATE.
1890	*44,179	114	2.58
1895	*51,522	97	1.88
1900	*62,059	111	1.78
1901	64,412	122	1.96
1902	66,854	111	1.66
1903	69,389	114	1.64
1904	72,020	123	1.7
1905	*73,540	120	1.63
1906	76,255	116	1.52
1907	78,707	114	1.44
1908	81,425	91	1.11
1909	84,237	101	1.19
1910	88,926	87	.97
1911	92,048	101	1.09
1912	96,973	101	1.04
1913	100,877	99	.98

*Official Census.

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DEATHS FROM TUBERCULOSIS 1913.
(Pulmonary)
BY WARDS.

Wards.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
1	....	3	....	1	....	....	1	....	....	....	1	3	9
2	1	....	1	....	2	....	1	....	....	....	....	....	5
3	2	....	1	1	....	2	....	2	....	....	....	....	8
4	....	....	....	2	....	....	....	....	....	1	....	1	4
5	1	....	1	1	1	....	1	....	3	....	1	....	9
6	....	....	3	1	1	....	2	2	3	....	1	....	13
7	....	1	1	1	1	1	....	....	1	....	1	1	8
8	2	....	1	2	....	....	1	2	....	2	1	1	12
Totals	6	4	8	9	5	3	6	6	7	3	5	6	68

Five deaths of non-residents brought to Springfield for treatment are excluded.

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IN MEMORIAM.

Minnie I. Bacon, for eight years matron of the hospital, died very suddenly December 7, 1913. She was eminently qualified to fulfill the varied duties of her position and, through her interest in the work and the patients who came under her care, made many friends and was highly respected by those who knew her best. The Board of Health desires to express its appreciation of her worth and merit, feeling that she possessed those qualities of heart and mind which are so valuable in making the position she occupied a credit to herself and the city.

HEALTH DEPARTMENT HOSPITAL.

Two hundred and seven patients were admitted to the different wards of the hospital during the year. The wards for tuberculosis are utilized as far as possible for the temporary care of patients who have made application for admission to sanatoria. It is also being demonstrated that a number of advanced cases under the beneficial effect of hospital care improve, or their condition remains stationary and that they will become more or less permanent inmates of the hospital. It does not seem clear as to the disposition which ought to be made of these cases. If they are to remain in the hospital indefinitely it will soon be necessary to increase its capacity, as tuberculous cases are not admitted to other institutions. Fifty-one patients have been admitted to the wards for tuberculosis during the year with fourteen deaths. The arrest or improvement of eighteen cases of tuberculosis is very encouraging as it indicates that the location is desirable and the general management of the hospital is conducted on lines capable of obtaining these results. The present dormitory accommodations, as well as the location of the dining rooms and general kitchen in the cellar of the hospital, are as unsatisfactory as ever, and the administration building should be

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erected at an early date. There are seventeen employees connected with the hospital at present and the operation of the laundry will add to the number, and more suitable accommodations should be provided. One hundred and fifty-six cases were admitted to the contagious disease ward during the year. The admission for diphtheria represents 31% of total cases reported, and for scarlet fever 32.5%. Few complications occurred. In two cases of mixed infection reported, the infection was contracted before admittance to the hospital. Seven deaths occurred from all diseases, showing a case mortality of 4.5%. No employee was infected during the year.

CONTAGIOUS DISEASE WARDS.

Number of patients admitted during year,	156
Number of intubations for diphtheria,	8
Number of deaths following intubation,	1
Number of private patients admitted during year,	50
Number of physicians treating private cases,	50
Total number of days for diphtheria patients,	810
Average number of days for diphtheria patients,	13.5
Total number of days for scarlet fever patients,	1,910
Average number of days for scarlet fever patients,	32.3
Total number of days for other diesases,	661
Total number of days for all diseases,	3,381
Number of deaths from diphtheria,	2
Number of deaths from scarlet fever,	2
Number of deaths from other diseases,	3
Total number of deaths for all diseases,	7

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AGE OF PATIENTS.

Age	Under 1		1-4		5-9		10-19		20-29		30-39		40-49		Over 50		Totals
Sex	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Diphtheria	2	..	13	8	8	10	2	6	2	6	..	1	..	2	..	..	60
Scarlet Fever	..	..	4	4	10	14	7	5	7	7	1	..	..	..	..	..	59
Ophthalmia Neonatorum	3	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4
Others	1	1	..	1	..	1	..	1	1	2	..	1	..	1	..	..	10
Mixed Infections	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	2
Poliomyelitis	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	2
Measles	..	1	6	9	1	1	1	..	..	..	..	..	..	..	..	..	19
Totals	7	3	23	23	20	26	11	12	10	15	1	2	..	3	..	..	156

PATIENTS ADMITTED BY MONTHS.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Diphtheria	5	2	7	5	6	2	2	2	2	6	9	12	60
Scarlet Fever	7	9	8	11	7	2	2	2	1	3	3	4	59
Ophthalmia Neonatorum	1	..	1	1	..	..	..	1	..	..	..	..	4
Others	2	3	..	2	11	..	..	2	..	..	..	..	10
Mixed Infections	..	..	1	..	..	..	..	..	..	..	1	..	2
Poliomyelitis	..	..	..	..	..	..	..	..	2	..	..	..	2
Measles	..	1	6	9	1	1	1	..	..	..	..	..	19
Totals	15	15	23	28	15	5	5	7	5	9	13	16	156

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TUBERCULOSIS WARDS.

Patients in hospital Jan. 1, 1913,	19
Patients admitted during the year,	51
Number discharged with disease arrested,	2
Number dismissed improved,	10
Number dismissed condition not improved,	16
Number transferred to other institutions,	3
Number discharged not tuberculosis,	5
Number discharged for refusal to obey hospital rules,	9
Number of deaths,	13
Total number of days for patients,	5,761
Average number of days per patient,	82.4
Number condition improving Dec. 31, 1913,	1
Number condition not improving,	6
Number diagnosis not confirmed,	7
Number of patients Dec. 31, 1913,	14

TUBERCULOSIS.

Age and Sex of Patients.

Age	Under 1 year		1-4		5-9		10-19		20-29		30-39		40-49		Over 50		Totals
Sex	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Tuberculosis	..	..	..	..	..	..	4	5	8	7	6	6	7	1	6	1	51

PATIENTS ADMITTED BY MONTHS.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Tuberculosis	2	3	10	5	2	6	10	6	1	..	4	2	51

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LABORATORIES.

The laboratories have become in a series of years an important division of the Department. Started in a small way in a private laboratory for the examination of diphtheria, they have grown to their present proportions and the variety of work now carried on is necessary for the proper protection of the public health. The laboratories should be located in the Administration Building. Although the expense of maintenance in this location would be materially increased, the concentration of the entire Department in the same building would be desirable in many ways. The outer office of the laboratory is always accessible and antitoxin and the different outfits can be obtained at any time. The attention of the public is also called to the great variety of information concerning all matters connected with the milk supply which can be obtained from the laboratory as well as the privilege given any individual of sending milk which is in any way suspected of being below standard, adulterated, or contaminated, for analysis.

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DIPHTHERIA.

MONTHS.	DIAGNOSIS.		RELEASE.		TOTAL Examinations.
	Positive.	Negative.	Positive.	Negative.	
January, ...	13	60	11	41	125
February, ...	7	72	5	20	104
March, ...	17	60	11	29	117
April, ...	9	62	7	39	117
May, ...	14	66	12	34	126
June, ...	9	38	8	23	78
July, ...	6	13	5	14	38
August, ...	12	15	2	15	44
September, ...	10	20	5	17	52
October, ...	22	43	13	34	112
November, ...	33	69	21	73	196
December, ...	21	79	3	67	170
Totals, ...	173	587	103	406	1279

22.5% positives.

TYPHOID FEVER.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Positive	3	0	0	0	0	0	5	11	3	5	1	0	28
Negative	8	2	8	3	0	5	7	12	5	1	9	7	67
Doubtful	0	1	0	0	0	7	3	5	4	3	1	0	24
Totals	11	3	8	3	0	12	15	28	12	9	11	7	119

23.5% positives.

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TUBERCULOSIS.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Positive	2	9	2	7	6	4	7	7	4	1	1	6	56
Negative	16	24	26	21	25	24	12	7	33	27	8	20	243
Totals	18	33	28	28	31	28	19	14	37	28	9	26	299

19% positives.

INFANTILE MORTALITY.

Attention is now being directed in various ways to the high mortality which exists in children under one year of age, and the declining birth rate in many places adds new importance to child welfare work. The infant mortality rate is properly estimated on the birth registration exclusive of stillbirths, which causes a slight increase in the infant mortality in the city, as it has been previously estimated on the total birth registration. Deducting the stillbirths, the infant mortality under one year of age for 1912 is 100 per 1,000 births, and for 1913, 100 per 1,000 births, which is a very low death rate when compared with other cities. Reference to the infant mortality table shows that there is opportunity for the extension of the work undertaken by the Baby Feeding Association. The age period of deaths is also interesting, as well as the causes of death, indicating in a general way the line of effort which will be likely to prove most effectual in still further reducing the present infant mortality. The city is fortunate in having a well managed Baby Feeding Association. Two milk stations are operated during the year where milk is modified and distributed. Instructions to mothers and visits at their homes by the nurses comprise some of the activities of the association and due credit should be given to their work in the splendid showing of the infant mortality for this city. There are many other matters affecting infant welfare besides

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clean milk and methods of feeding. Some of these are within the scope of association work and others are connected with the larger problems which enter into the protection of the public health as a whole, and add force to the statement already made regarding the duty and responsibility of the city to the individual in matters concerning health.

The work in reducing deaths from premature births and congenital debility will be prenatal work which is now receiving considerable attention in this country. The weight at birth has much to do with the chance of living and measures taken to improve the health of the mother by rest, good food, sanitary surroundings, with freedom from care, indicate the lines to be followed.

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INFANTILE MORTALITY 1913.

Month.	Total Under 1 year	AGES.											
		Under 1 day	1-2 days	2-3 days	3 days 1 week	1-2 weeks	2-3 weeks	3 weeks 1 month	1-2 months	2-3 months	3-6 months	6-9 months	9-12 months
January	23	6	1	1	1	..	..	2	1	2	4	3	2
February	21	4	..	2	3	2	2	..	1	2	4	1	..
March	36	2	3	1	4	4	4	4	..	3	3	6	2
April	24	4	2	..	3	1	..	1	..	1	6	2	4
May	22	7	1	1	1	..	3	..	4	..	2	2	1
June	17	5	2	1	1	..	1	1	..	..	4	..	2
July	34	7	..	1	1	5	1	..	3	3	5	3	5
August	28	4	..	..	3	1	1	1	1	5	3	1	3
September	29	7	..	2	2	2	1	..	3	2	3	2	5
October	31	7	1	..	3	..	1	3	3	3	7	1	2
November	14	3	..	2	..	..	..	2	1	1	2	2	1
December	16	2	..	..	2	1	..	1	2	2	3	3	..
Total	295	58	10	11	24	16	14	15	19	24	51	26	27
Males	165	29	5	9	14	11	10	7	9	15	32	12	12
Females	130	29	5	2	10	5	4	8	10	9	19	14	15
Total	295	58	10	11	24	16	14	15	19	24	51	26	27
Classification.													
Measles	3	..	..	..	..	..	..	..	..	..	..	1	2
Scarlet Fever	1	..	..	..	..	..	..	..	..	..	..	..	1
Whooping Cough	4	..	..	..	..	..	1	..	..	..	1	1	1
Diphtheria	1	..	..	..	..	..	..	..	..	..	1	..	..
Influenza	1	..	..	..	..	..	..	..	..	..	..	1	..
Tuberculosis (Pul.)	1	..	..	..	..	..	..	..	..	..	1	..	..
Syphilis	4	..	..	1	..	..	..	2	..	..	1	..	..
Anterior Poliomyelitis	1	..	..	..	..	..	..	..	..	..	1	..	..
Convulsions of Infants	6	..	..	..	..	1	..	..	1	..	4	..	..
Acute Bronchitis	1	..	..	..	..	..	..	..	1	..	..	..	..
Broncho Pneumonia	26	..	..	..	..	2	1	..	3	2	8	6	4
Pneumonia	15	..	..	1	..	..	..	1	1	4	3	3	2
Diarrhea and Enteritis, under one year	72	..	..	..	1	2	3	4	7	13	20	9	13
Congenital Malformations	24	6	2	2	5	..	2	2	2	..	2	1	..
Congenital Debility	38	11	3	1	9	2	3	1	4	1	2	1	..
Premature	55	30	5	4	6	4	2	3	..	1	..	..	..
Other Diseases	42	11	0	2	3	5	2	2	0	3	7	3	4
Totals	295	58	10	11	24	16	14	15	19	24	51	26	27

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SCHOOL INSPECTION AND CHILD WELFARE.

The general procedures outlined in the report for 1912 have been continued during the year and it is believed that the work of school inspection is being more fully appreciated than ever. The yearly physical examination of pupils is now well started and every child in the public schools will be examined before the end of the school year. The work was commenced in 1912, but was not carried above the fourth grade, therefore, a detailed report of this feature of school inspection cannot be made at this time as it will be based on the school year instead of the calendar year. The most important addition to school inspection which has been made since the beginning of the work is the introduction of the school nurse. Two nurses have been appointed and assigned to six different schools and the work already accomplished, along with the appreciation of teachers and parents, leaves little room for doubt as to the future good results which will occur as the work is enlarged and more fully understood. There is no better field for child welfare work than is to be found in the public schools and the results directly or indirectly accomplished will surely be made apparent in the general improvement in the health, increased attendance, and more rapid progress of the pupils. Good results are being obtained from the introduction of the open-window schoolroom, and a detailed study of this feature of school life is being made to determine the improvement which takes place in children attending the open-air or open-window schoolroom.

A detailed report of the work accomplished by the school nurses will cover the school year, but a brief statement of the results of four months' effort will indicate what is to be expected from this extension of school inspection.

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SCHOOL NURSES' REPORT.

September to December 31, 1913.

CASES REFERRED TO NURSES.

Skin diseases,	116
Parasitic affections,	107
Enlarged tonsils and adenoids,	137
Defective eyesight,	100
Miscellaneous,	94
Total,	554
Number of cases relieved,	446
Number fitted with glasses,	58
Number having tonsils removed,	31
Total visits made at home,	1,199

In addition to the above work first aid and other treatment has accomplished much good by keeping a considerable number of children in schools and improving the percentage of school attendance. Treatment or service is not forced upon any child by the nurse, but it has been so quickly appreciated by parents that it is difficult to meet all the requests which are received from those who only employ a physician under the direst necessity, and naturally give no attention whatever to those matters which school inspection aims chiefly to improve.

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TABULATION OF REPORTS OF MEDICAL INSPECTORS OF SCHOOLS FOR THE YEAR ENDING DECEMBER 31, 1913.

LIST OF DISEASES FOUND IN THE SCHOOLS.

	1912	1913
I.—Infectious Diseases.		
Diphtheria,	3	5
Scarlet Fever,	5	3
Measles,	149	21
Mumps,	298	25
Whooping Cough,	77	27
Chicken Pox,	90	116
Tuberculosis,	2	2
Influenza,	26	24
Other Diseases,	9	11
II.—Diseases of Oral and Respiratory Tract.		
Acute Pharyngitis,	388	347
Acute Tonsilitis,	400	354
Chronic Hypertrophic Tonsils,	137	106
Acute Rhinitis,	109	181
Defective Nasal Breathing,	23	14
Adenoids,	74	42
Other Diseases,	92	21
Defective Teeth,	555	
III.—Diseases of Eye and Ear.		
Acute Otitis Media,	18	28
Chronic Otitis Media,	22	26
Other Diseases of Ear (defective hearing excluded),	17	22
Blepharitis,	37	49
Acute Conjunctivitis,	56	59
Other Diseases of Eye (defective visions excluded),	90	83

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	1912	1913
IV.—Diseases of the Skin.		
Acne,	19	36
Boils,	63	69
Dermatitis,	98	153
Eczema,	212	196
Erythema,	91	88
Herpes,	247	254
Impetigo Contagiosa,	902	797
Pediculosis,	555	644
Scabies,	139	102
Tinea,	100	60
Other Affections,	341	339
V.—Miscellaneous.		
Abscesses and Ulcers,	169	91
Contusions and Injuries,	393	293
Cardiac Diseases,	7	13
Fever,	36	19
Gastric and Intestinal,	91	110
Malnutrition,	29	35
Pulmonary Disease,	13	7
Tubercular Lymph Nodes,	27	14
Other diseases not classified,	628	746
Summary.		
Specific and Infectious Diseases,	659	234
Oral and Respiratory Diseases,	1,223	1,065
Diseases of the Ear,	57	76
Diseases of the Eye,	183	191
Diseases of the Skin,	2,768	2,738
Miscellaneous Diseases,	765	582
Unclassified,	628	746
Vaccinations,	1,414	1,452
No disease found,	726	1,451
Number of first examinations,	8,964	8,938
Number of re-examinations,	4,131	4,651
Total number of examinations,	13,095	13,589
Total number sent home,	457	451

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LIST OF MEDICAL INSPECTORS OF SCHOOLS.

Dr. W. H. Chapin, Central High, Technical High, State Street Grammar, School Street, and East Union Street.

Dr. M. W. Harrington, I. O. Primary and Grammar, Sixteen Acres, and Five Mile Pond.

Dr. J. P. Hillard, Kensington Avenue, White Street, and Boston Road.

Dr. W. A. Hosley, Sumner Avenue, Forest Park, and Vocational.

Dr. G. T. Lamarche, St. Joseph, St. Aloysius, I. O., St. Matthews, I. O., Immaculate Conception, I. O.

Dr. L. J. McCarthy, Charles Street, Glenwood, Brightwood, Armory Street.

Dr. R. B. Ober, Buckingham, Tapley, and Homer Street.

Dr. T. F. Rearden, Sacred Heart, St. Michael, Holy Family, Holy Name.

Dr. H. Ritter, Carew Street, Jefferson Avenue, and Hooker.

Dr. A. G. Rice, Worthington Street, Chestnut Street, and Lincoln.

Dr. E. T. Smith, Acushnet Avenue and Central Street.

Dr. C. E. Street, Strickland, Barrows, Alden Street, and Eastern Avenue.

Dr. E. J. Sweeney, Howard Street and William Street.

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Health Department

Springfield, Mass.

Medical Inspection of Schools

Physical record of _____ age _____

State school year in which pupil has had	Diphtheria	Measles	Mumps	Pertussis	Scarlet Fever

Date of first examination _____ 191 , in _____ School.

SCHOOL YEAR	K	1	2	3	4	5	6	7	8	9
Date of examination Mo. / Da.	/	/	/	/	/	/	/	/	/	/
Grade										
Height Ft. / In.										
Weight										
Chest measure at rest										
Vaccination										
Nutrition										
Anemia										
Enlarged glands										
Orthopedic defect										
Nervous disease										
Pulmonary disease										
Cardiac disease										
Teeth (G. F. P.)										
Enlarged Tonsils										
Adenoids										
Vision										
Hearing										
Mentality										

Y=Yes
N=No
G=Good
F=Fair
P=Poor
O=Operation

Use code numbers for diseases.

If tonsils or adenoids removed indicate by O.

Remarks _____

S. L. 16

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FOOD INSPECTION.

Milk.

The work of protecting and improving the milk supply of the city consists in the inspection of dairies, stores, milk plants, and the routine examination of milk from samples taken on the streets. Bacteriological examinations and sediment tests are made throughout the year. The information obtained from these procedures enables the department to keep in close touch with the producer as well as the dealer and, by co-operating with them in any effort to improve conditions or eradicate faulty methods, a friendly feeling exists toward the department in any fair movement made toward a better milk supply. Further observation of the problems concerned with the market milk supply for cities of this size, leads to the opinion that it will be extremely difficult to adopt any uniform method of dealing with the matter, and that the methods used in this city are as well calculated to bring good results as any other which might be introduced. The market milk supply can be brought up to a certain point as regards conditions under which it is produced and handled, but beyond that point it will be difficult to go and will only be maintained at an average condition by continual supervision and intimate knowledge of the source of supply and methods of handling at all times. In other words there is little philanthropy in the milk business, and the quality and purity of milk through a series of years will depend largely upon the price which can be obtained for it. The use of the score card in dairy inspection is proving valuable in different ways and time enough has now elapsed in which to draw conclusions from its use. A comparison of percentages of dairies in the different classes does not by any means indicate that the supply as a whole is necessarily improving or deteriorating. The continual changes in the dairy supply bring many new dairies into the lower classes. The

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conditions existing on the day of the inspectors' visit may be such as to unduly reduce the score of any dairy, or even place the dairy in a lower class. Temperature will also make a decided change in the score and with a practical failure of the ice crop for 1913, a large percentage of the dairies were without ice during the hot weather and their scores were temporarily lowered. The bacteriological examinations of milk prove its value in connection with the score cards and will in many instances act as a check upon the score card rating, at least, such proved to be the case in Springfield. The scores have ranged lower for 1913 than 1911 and 1912, but the bacteriological work has shown without doubt that the purity and cleanliness of the milk supply has not deteriorated, but has in many instances improved. It is, therefore, believed that tables classifying dairies by scores and percentages will always require explanation in order to afford real information. During the past year several producers sending milk to Springfield have exhibited their product at the National Dairy Show held at Chicago and at the Massachusetts State Show at Amherst. There were three entries at the National from Springfield and these received an average score of a trifle over 95% perfect and were awarded diplomas and presented the medals given to the highest scoring entries from the states represented. At the milk show held at Amherst Springfield milk producers were awarded first place in both the market milk and market cream classes and the sweepstake for the state in both the above classes, obtaining a score of 97.7 in market milk and 98.5 in market cream. At this show Springfield producers won fourteen State diplomas and several cash prizes. The showing and interest manifested by local producers in this exhibition was due in part to the silver cups for the highest scoring entries from Springfield presented by the Springfield Board of Trade, Charles Hall, and Quimby & Co. Of more than passing interest was the Springfield

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Milk Show held here in December. No little part of the success of this was due to the effort and co-operation secured by this Department. At this show there were 208 entries from forty-three cities and towns in Massachusetts in the milk and cream classes and the leading dairies in the surrounding states were represented by many fine entries. The total of 208 entries exceeds that of any previous show held in this country. The class in market milk for the milk dealers of the city was of special interest to the Department as well as to the dealers. The samples for this competition were taken from the wagons as the milk was being delivered. Several of these samples received high scores and the information obtained by the department will be useful in making further improvements in the handling of the city's milk supply. Three silver cups were offered as the prizes in this class. First prize by His Honor, Mayor Denison, second by Hon. Nathan D. Bill, and third by Col. A. H. Goetting. The first place in the Health Department Class at the Springfield State Milk Show was awarded to this city. The standing in this class was determined by the three highest scoring entries from any city or town in Massachusetts. There were twelve cities and towns in the contest. The Clean Milk Contest of the State Dairy Bureau was another very prominent feature of the Springfield Show. Samples for this contest were collected by representatives of the State Dairy Bureau during the month of October and the awards announced at Springfield during the show. Twenty prizes ranging from $100 to $5.00 were offered as prizes in this section and all contestants were allowed to compete for the state sweepstake prizes of $200, $150, and $100. Dairies sending their milk to this city won fourteen of the twenty prizes offered, and the first and second prizes in the sweepstake class. This means that out of a total of $1,500 offered Springfield dairies were awarded $1,050.

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SUMMARY OF WORK PERFORMED IN THE DAIRY DIVISION.

Estimated number of quarts sold daily in Springfield,	60,000
Estimated number of quarts sold daily in city from near-by dairies,	57,500
Estimated number of quarts sold in city from New York state dairies,	1,000
Estimated number of quarts sold in city from Vermont dairies,	1,500
Number of licenses issued for sale of milk,	694
Number of licenses and registrations issued for sale of oleomargerine,	76
Number of near-by dairies sending milk to Springfield,	613
Number of New York dairies sending milk to Springfield,	25
Number of Vermont dairies sending milk to Springfield,	20
Number of changes made by dealers in source of supply during 1913,	257
Number of dairy milk houses built during 1913,	21
Number of dairy barns built during 1913,	8
Number of dairy barns remodeled during 1913,	9
Number of inspections made of dairies,	1,002
Number of inspections made of stores and restaurants,	1,042
Number of inspections made of milk wagons and rooms,	838
Number of inspections (total),	2,882
Number of milk samples collected at the farms,	24
Number of milk samples collected from trains,	241
Number of milk samples collected from stores,	497
Number of milk samples collected from wagons,	1,166
Number of milk samples brought to laboratory,	782
Number of samples analyzed (total),	2,710
Number of samples found above standards (solids,12.15%, fats, 3.35%),	2,163
Number of samples found below standard,	547
Number of samples low in solids and fats,	282
Number of samples found low in solids,	197
Number of samples found low in fats only,	68
Number of samples of ice cream analyzed,	44
Number of samples of skimmed milk analyzed,	24
Number of samples of buttermilk analyzed,	6
Number of samples of prepared milk analyzed,	16
Number of milk samples plated for bacterial examination,	1,494

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Number of refractions for presence of added water,	84
Number of samples containing added water,	59
Number of microscopic examinations of sediment,	1,325
Number of prosecutions for selling watered milk,	4
Number of convictions,	4
Number of samples having bad flavor,	8
Number of samples containing manure,	3
Number of slimy milk samples received,	4
Number from which organism was isolated,	4
Number of samples containing excessive amount of dirt,	27
Number of samples containing feed flavors (ensilage, molasses),	7
Number of samples received containing preservative (trace of formal)	1
Number of bitter milk samples received and examined,	4
Number of samples showing skimming,	1
Number of oleomargerine samples examined,	7
Number of butter samples examined,	8
Number of letters sent,	1,582
Number of cards and notices,	3,684

	1911		1912		1913	
		Percentage		Percentage		Percentage
Number of samples with 10,000 and under	109	24.7	128	31.6	260	37.1
Number of samples between 10,000 and 20,000	41	9.3	41	10.1	84	11.9
Number of samples between 20,000 and 50,000	82	18.6	70	17.3	102	14.5
Number of samples between 50,000 and 100,000	58	13.1	50	12.4	58	8.3
Number of samples between 100,000 and 200,000	53	12.0	35	8.6	55	7.8
Number of samples between 200,000 and 500,000	57	12.9	28	6.9	54	7.7
Number of samples with a count above 500,000	42	9.4	53	13.1	89	12.7
Number of samples with not more than 10,000	109	24.7	128	31.6	260	37.1
Number of samples with not more than 100,000	290	65.3	289	71.4	504	71.8
Number of samples with not more than 500,000	400	90.6	352	87.0	613	87.3

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Effect of Temperature on Bacterial Count of City Milk.

A summary of the bacterial counts and temperatures of all the milk samples taken on the streets of Springfield, Mass., during the past three years emphasizes the importance of keeping milk cold in transit from time of production until delivery to the consumer.

These averages of medians were reached by alternately striking out high and low counts secured from samples of the same temperature when taken, and taking the last as the count best representing the character of the milk.

These tables show that the lower the temperature of milk from which the sample was taken, the lower the average bacterial count, notwithstanding the care or neglect the milk had received from production until time samples were taken as milk was being delivered to consumers.

Temperature of Samples when Taken and Bacterial Count.

	1911	1912	1913
Minus 40 degrees F.,	3,250	2,600	1,200
40 to 50 degrees F.,	37,600	26,900	20,900
51 to 60 degrees F.,	100,800	51,700	3,500
Above 60 degrees F.,	260,000	1,940,000	112,000

INSPECTION OF MEATS, PROVISIONS, AND SLAUGHTERING.

The work of the Inspector during the year is tabulated as follows:—

Cold storage houses,	43
Wholesale meat houses,	162
Wholesale fruit houses,	74
Retail meat markets,	2,577
Retail grocery markets,	3,168
Retail fish markets,	1,023

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Retail fruit markets,	2,495
Meat carts,	120
Total,	9,662

In the course of the year the following list, given in pounds, was condemned:—

MEATS.	
Beef,	1,000
Pork,	263
Lamb,	326
Veal,	435
Liver,	74
Kidney,	68
Bacon,	10
Ham,	56

MEAT PRODUCTS.	
Sausage,	88
Frankforts,	66
Hamburg,	4
Tripe,	10

POULTRY.	
Chicken,	267

FISH	
Fish,	88

FRUIT.	
Peaches,	1 basket
Plums,	1 box
Prunes,	25 pounds
Raisins,	18 pounds

VEGETABLES.	
Potatoes,	¼ car
Lettuce,	2½ boxes
Spinach,	1½ barrels
Peas,	12 cans

Markets were found kept, as a rule, in good sanitary condition, and the proprietors show they are striving to keep their meats and sticky fruits under cover. Nineteen complaints were investigated, but only in four instances was there just cause for such. There are at present twelve retail markets using refrigerating plants, and keeping all of their goods under glass, and others are intending to fall into line.

During the summer, owing to the high price of ice, many meats spoiled, such as beef, lamb, and poultry, as the report shows, corresponding with report of last year:—

	BEEF	LAMB	POULTRY
1912	487	151	113
1913	1,000	326	267

Such waste could be prevented by proper refrigeration.

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SLAUGHTERING INSPECTION.

The following examination of carcasses killed in the city limit has been made:—

Lamb,.....	40
Hogs,.....	88
Veal, foreign,..	513
Veal, native,...	13

Five carcasses of veal, one hog, and two heads were condemned.

STABLES.

One hundred and twelve licenses to occupy were granted during the year and 141 applicants given leave to withdraw. The necessity for more stringent stable regulations has been apparent for some time and a new set of regulations were adopted and are printed in this report. The decided improvement already shown and the willingness on the part of the great majority of applicants to comply with the new rules is very gratifying to the department. Reasonable time and due consideration for individual difficulties in making necessary alterations in existing stables is being given in order to bring about the desired changes with as little inconvenience and unlooked-for expense as possible.

STABLE REGULATIONS.

RULE 1.—No stable licenses will be granted unless the floors are so constructed and drained that no excrement or refuse liquids will be absorbed or flow upon or into the ground.

RULE 2.—All stables hereafter erected without a cellar under the stalls shall have a concrete floor of good quality not less than four (4) inches thick laid upon a solid filling where top of floor is above grade. When a wearing floor is laid on the concrete it must rest directly on the same, and be fastened

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to suitable wooden nailing strips, embedded in the concrete flush with its upper surface. A stable floor which is over a cellar or other story may be of reinforced concrete or of mill construction; when the latter, a layer of two thicknesses of tarred paper, well mopped with hot tar or asphalt, shall be laid on over the planking and a wearing floor of matched plank laid on over the paper to protect it.

RULE 3.—In all stables hereafter erected having a basement or cellar, the entire basement floor shall be concreted with not less than four (4) inches of concrete of good quality and provided with proper drainage.

RULE 4.—All stalls shall have suitable gutters connected with the drainage system and the floors shall be flushed with running water at least once a week.

RULE 5.—The entire drainage of every stable shall be properly conducted to a public sewer, whenever practicable, and in all cases, together with the lighting, ventilation, and screening, shall be made satisfactory to the Board of Health.

RULE 6.—The receptacle for manure shall be so located and constructed that its contents shall not cause it to be a nuisance. It shall be made water tight and inaccessible to flies and shall at all times when not in use remain closed or covered.

RULE 7.—No manure or bedding shall remain outside the stable in public view. Manure shall be removed weekly unless otherwise specified in the license, and shall only be removed in properly covered wagons, so loaded as to prevent scattering during transportation through the streets.

RULE 8.—Disinfectants shall be used daily in proper quantities, when objectionable odors are present, and the entire stable building shall at all times be kept clean and in a sanitary condition.

CLEAN-UP DAY.

The Springfield Improvement Association inaugurated a Clean-Up Day which began upon Arbor Day and was con-

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tinued through the following week. The Street Department used their entire force in removing the material. The interest taken by the public generally and the good results obtained not only for the time being, but in a general awakening as to the value of cleanliness, should make its repetition an annual event. The fire hazard alone, from accumulation of combustible wastes, should be inducement enough to prevent the condition which calls for a clean-up day, aside from the unsightliness, foul odors, and general belief in the dangers to health which such accumulations may induce. The abatement of the fly nuisance will be materially aided by a general cleaning up of all refuse matter and abolishing the breeding places of flies. There is a relation existing between the presence of flies in a given district and the amount of sickness, especially intestinal affections of children, prevailing in that district, and further investigation will no doubt establish the fact that flies are important agents in the transmission of the infective agent in diarrheal diseases and as such the elimination of the fly becomes an important factor in lowering infant mortality.

MUNICIPAL WASTES.

The Street Department has charge of all matters regarding municipal wastes. The collections are made by the Department. The garbage is delivered to a reduction plant operated by private individuals. The combustible waste is carried to incinerators where it is burned. Details of costs and amounts treated are to be obtained from the reports of the Street Department.

INSPECTION OF PLUMBING.

Inspection of plumbing is under the direction of the Building Commissioner. Two inspectors are employed at the

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present time. Plumbing rules and regulations are submitted to the Board of Health for approval before they are adopted or changed.

PUBLICITY.

Ample space has always been freely given to the Board of Health in the columns of the daily press and the Board appreciates the friendly spirit manifested editorially when advocating any proposed enlargement of department activities. The exhibit, made by the Department at the Dedication of the Municipal Group, served to emphasize the progress which has been made during the past few years. Charts and tables illustrating prominent features of the work were freely used and along with the laboratory exhibit furnished an interesting and instructive display which received much favorable comment. It certainly enlarged the knowledge of the public as to the nature of the work which is now being carried on and the money expended in preparing the exhibit was a good investment. The exhibition was open to the public for seven days and a few of the facts prominently brought out may be mentioned. The city expends for health 47 cents per capita of population. The Health Department only receives 1.3 cents of every dollar of the entire budget. Tuberculosis, all forms, stood first as a cause of death in 1908 and in 1912 occupies the fourth place. Diphtheria has 287 cases in 1908 and 131 cases in 1912. The death rate and infant mortality rates have been decreasing gradually and in 1912 reached as low a rate as any city in the country. The work accomplished in protecting the milk supply was given a prominent place. The comparative food value of a quart of milk was illustrated and is as follows:—

One quart of milk contains the same amount of nutritive material as each of the following list of foods:—

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	Pounds	Ounces
Almonds,		4.5
Apples,	2	5.1
Beefsteak (round),		10.8
Bananas,	1	11.3
Cabbages,	4	2.2
Codfish,		15.4
Cornmeal,		4.9
Eggs,	1	3.9
Oranges,	2	14.
Prunes,		6.6
Potatoes,	1	9.4

A large placard labeled "MILK DON'TS" read as follows:—

MILK DON'TS.

DON'T buy milk unless you are sure it is clean.
DON'T expose milk or its container to the sun for an extended time.
DON'T put milk in a vessel which has not been previously scalded.
DON'T keep milk in vessels that are used for other purposes.
DON'T keep milk in same compartment of refrigerator with other edibles, because milk absorbs odors as well as germs.
DON'T leave a milk bottle uncovered.
DON'T leave the milk bottle unwashed after use. Wash it at once.
DON'T fail to rinse the bottle in cold water before scalding.
DON'T use any but fresh milk for the baby.
DON'T give the baby a milk mixture prescribed by a neighbor.
DON'T keep the milk warm for the baby all the time. Germs grow.
DON'T use a thermos bottle to keep baby's milk warm.
DON'T blow the milk to cool it.
DON'T heat the milk a second time before feeding it to the baby.

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DON'T moisten the nipple with your own saliva before putting it in the baby's mouth.
DON'T use milk containing dead flies.
DON'T put milk in the baby's eyes.
DON'T accuse the milk dealer of serving sour milk until after investigating your own handling of it.
DON'T forget that ice is the best preservative of milk.

Addresses have been made during the year by members of the Board, School Inspectors and Milk Inspectors upon a variety of subjects, and have served to direct attention to the value of the newer departures in public health work.

VITAL STATISTICS.

The births, marriages, and deaths which occur through a series of years along with the occurrence of disease furnish the foundation for the compilation of vital statistics. Although the official reports are returnable to the City Clerk, the information is so important in correctly estimating the health work that the Health Department utilizes in various tables the information kindly furnished by the Registrar which seems of importance in directing the work of the Department. The comparison of the Vital Statistics of different cities has a certain value as it indicates in a general way the results of Public Health work, but the real value should come from its own statistics as they are compared from year to year. Character and nationality of population, kind and nature of employment or occupation, congestion and conditions of living, water and food supply, stability of population, taken together make a difference in Vital Statistics, and each city has its own combination of conditions favorable and unfavorable. The total number of deaths occurring in this city during the year 1913 was 1464 exclusive of stillbirths, which numbered 100.

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This number includes 188 non-residents. The population is estimated at 100,877, which establishes the actual death rate at 12.64 per 1,000 inhabitants; including the non-residents' deaths, the death rate would be 14.51 per 1,000 inhabitants.

BIRTHS, DEATHS, STILLBIRTHS AND MARRIAGES WITH POPULATION AND RATES PER 1,000 OF POPULATION.

Years	Population	Births, Stillbirths excluded	Deaths, Stillbirths excluded	Stillbirths	Marriages	Birth Rate	Death Rate	Marriage Rate
1900	62,059	1,562	1,143	49	640	25.16	18.41	20.62
1901	64,412	1,527	933	49	642	23.73	14.48	19.92
1902	66,854	1,681	1,025	49	701	25.14	15.33	20.96
1903	69,389	1,758	1,100	53	726	25.33	15.85	20.92
1904	72,020	1,682	1,149	72	686	23.35	15.95	19.04
1905	73,540	1,879	1,120	71	800	25.55	15.22	21.74
1906	76,255	1,863	1,136	69	934	24.43	14.89	24.48
1907	78,707	2,061	1,302	63	1,156	26.18	16.54	29.36
1908	81,425	2,219	1,334	82	943	27.25	15.03	23.16
1909	84,237	2,371	1,309	65	1,064	28.14	15.53	25.26
1910	88,926	2,562	1,481	94	1,170	28.81	16.65	26.30
1911	92,048	2,582	1,412	104	1,274	28.05	15.33	27.68
1912	96,973	2,876	1,445	95	1,147	29.65	14.90	23.64
1913	100,877	2,964	1,464	100	1,260	29.38	14.51	24.98

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REGISTERED MORTALITY FOR THE YEAR 1913.

ESTIMATED POPULATION, 100,877. DEATH RATE PER 1,000 POPULATION, 14.51. TOTAL DEATHS, 1,464.

STILL BIRTHS, 100. PREMATURE BIRTHS, 55.

CAUSES OF DEATH.	TOTALS.	SEX.		SOCIAL RELATION.					NATIVITY.					AGE.														
		Males.	Females.	Single.	Married.	Widowed.	Divorced.	Unknown.	Springfield.	Mass.	Other States.	Foreign.	Unknown.	Under One.	1-2.	2-3.	3-4.	4-5.	5-10.	10-15.	15-20.	20-30.	30-40.	40-50.	50-60.	60-70.	70-80.	Over 80.	Unknown.
1. General Diseases	363	189	174	152	151	57	3	....	89	81	80	112	1	22	11	8	4	5	8	7	19	32	49	49	54	52	27	16	....
2. Diseases of the Nervous System and of the Organs of Special Sense	123	64	59	39	47	37	....	....	24	36	31	31	1	13	3	1	....	1	4	....	2	3	8	8	11	25	29	15	....
3. Diseases of the Circulatory System	176	92	84	31	80	63	2	....	17	39	50	69	1	2	....	....	....	2	....	3	4	5	9	18	31	38	41	23	....
4. Diseases of the Respiratory System	186	92	94	90	53	43	....	....	70	42	28	46	....	45	12	4	4	3	3	1	2	7	12	17	11	17	27	21	....
5. Diseases of the Digestive System	170	83	87	114	40	16	....	....	83	23	34	30	....	74	9	2	2	....	6	....	1	10	10	14	14	13	13	2	....
6. Nonvenereal Diseases of the Genitourinary System and Annexa	183	100	83	35	82	66	....	....	18	45	63	57	....	3	1	....	....	....	1	2	....	10	15	23	21	34	51	22	....
7. The Puerperal State	14	....	14	1	13	....	....	....	1	4	1	8	....	....	....	....	....	....	....	....	1	5	8	....	....	....	....	....	....
8. Diseases of the Skin and Cellular Tissue	4	3	1	3	....	1	....	....	2	1	1	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....
9. Diseases of the Bones and of the Organs of Locomotion	4	1	3	2	2	....	....	....	....	1	1	2	....	....	1	....	....	....	....	....	....	1	1	....	1	....	....	....	....
10. Malformations	25	13	12	25	....	....	....	....	22	2	1	....	....	24	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
11. Diseases of Early Infancy	104	60	44	104	....	....	....	....	99	3	....	....	2	103	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1
12. Old Age	11	1	10	1	1	9	....	....	....	4	3	4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	9	....
13. Affections Produced by External Causes	96	76	20	54	26	12	1	3	24	13	13	42	4	5	1	4	1	3	6	4	4	20	10	12	7	9	6	4	....
14. Ill-defined Diseases	5	4	1	5	....	....	....	....	5	....	....	....	....	2	....	1	1	....	1	....	....	....	....	....	....	....	....	....	....
TOTALS	1464	778	686	656	495	304	6	3	454	294	306	401	9	295	39	20	12	14	29	17	33	93	122	141	150	138	196	114	1

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REPORT OF DEATHS, SPRINGFIELD, 1913.

CAUSES OF DEATH.	Totals.	Sex.		Social Relation.					Nativity.					Age.												
		Males.	Females.	Single.	Married.	Widowed.	Divorced.	Unknown.	Springfield.	Mass.	Other States.	Foreign.	Unknown.	Under One.	1-2.	2-3.	3-4.	4-5.	5-10.	10-15.	15-20.	20-30.	30-40.	40-50.	50-60.	60-70.	70-80.	Over 80.	Unknown.
I. General Diseases.																												
1. Typhoid fever	20	13	7	10	10	..	..	..	1	7	3	9	..	..	..	..	..	1	..	1	3	9	3	..	3	..	..	..	..
2. Typhus fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3. Relapsing fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4. Malaria	1	1	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
5. Smallpox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6. Measles	9	2	7	9	..	..	..	..	6	..	2	1	..	3	4	..	..	..	1	..	..	..	..	1	..	..	..	..	..
7. Scarlet fever	3	2	1	3	..	..	..	..	2	1	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..
8. Whooping cough	6	4	2	6	..	..	..	..	5	..	..	1	..	4	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9. Diphtheria and croup	16	11	5	16	..	..	..	..	14	2	..	..	..	1	3	3	3	1	4	1	..	..	..	..	..	..	..	..	..
10. Influenza	17	9	8	2	5	9	1	..	1	6	5	5	..	1	..	..	..	1	..	..	..	..	2	1	..	4	2	6	..
11. Miliary fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12. Asiatic cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13. Cholera nostras	1	1	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
14. Dysentery	1	..	1	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
15. Plague	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16. Yellow fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17. Leprosy	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18. Erysipelas	4	4	..	1	3	..	..	..	1	2	..	1	..	1	..	..	..	..	..	..	..	..	1	1	..	1	..	..	..
19. Other epidemic diseases	1	1	..	1	..	..	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	7	5	2	4	3	..	..	..	..	3	1	3	..	..	..	..	..	..	..	..	..	..	2	..	5	..	..	..	..
21. Glanders	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22. Anthrax	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23. Rabies	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24. Tetanus	1	1	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
25. Mycoses	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26. Pellagra	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27. Beriberi	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	73	46	27	42	28	3	..	..	23	15	17	18	..	1	..	..	..	..	..	1	8	14	23	18	5	3	..	..	..
29. Acute miliary tuberculosis	4	2	2	1	3	..	..	..	..	3	..	1	..	..	..	..	..	..	..	..	..	2	..	1	1	..	..	..	..
30. Tuberculous meningitis	15	8	7	14	..	1	..	..	10	2	1	2	..	5	2	2	1	1	..	1	1	1	1	..	..	..	..	..	..
31. Abdominal tuberculosis	5	2	3	3	2	..	..	..	3	..	..	2	..	..	..	2	..	..	..	1	..	2	..	..	..	..	..	..	..

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CAUSES OF DEATH.	Totals.	Sex.		Social Relation.					Nativity.					Age.													
		Males.	Females.	Single.	Married.	Widowed.	Divorced.	Unknown.	Springfield.	Mass.	Other States.	Foreign.	Unknown.	Under One.	1–2.	2–3.	3–4.	4–5.	5–10.	10–15.	15–20.	20–30.	30–40.	40–50.	50–60.	60–70.	70–80.	Over 80.	Unknown.
I. General Diseases—Continued.																											
32. Pott's disease	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
33. White swelling	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
34. Tuberculosis of other organs	2	1	1	2	..	..	..	..	1	..	1	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..	..
35. Disseminated tuberculosis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
36. Rickets	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
37. Syphilis	5	2	3	4	1	..	..	..	2	..	2	1	..	4	..	..	..	..	..	..	..	..	1	..	..	..	..	..
38. Gonococcus infection	1	1	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	5	5	..	2	2	1	..	..	..	1	1	3	..	..	..	..	..	..	..	..	..	..	..	..	1	2	2	..	..
40. Cancer and other malignant tumors of the stomach, liver	30	14	16	3	18	8	1	..	1	4	12	13	..	..	..	..	..	..	..	..	..	..	..	5	9	7	8	1	..
41. Cancer and other malignant tumors of the peritoneum, intestines, rectum	18	8	10	5	6	7	..	..	4	2	3	9	..	..	..	..	..	..	..	..	..	1	..	2	5	3	5	2	..
42. Cancer and other malignant tumors of the female genital organs	20	..	20	1	10	8	1	..	2	4	6	8	..	..	..	..	..	..	..	..	..	..	1	5	3	6	4	1	..
43. Cancer and other malignant tumors of the breast	11	..	11	3	4	4	..	..	2	3	4	2	..	..	..	..	..	..	..	..	..	..	2	1	2	2	2	2	..
44. Cancer and other malignant tumors of the skin	3	2	1	..	1	2	..	..	..	1	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	2	..
45. Cancer and other malignant tumors of other or unspecified organs	22	11	11	2	14	6	..	..	1	3	11	7	..	..	..	..	..	..	..	1	..	1	3	1	6	6	2	2	..
46. Other tumors (tumors of the female genital organs excepted)	2	..	2	..	2	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..
47. Acute articular rheumatism	5	1	4	4	1	..	..	..	1	2	..	1	1	..	..	..	..	..	1	..	4	..	..	..	..	..	..	..	..
48 Chronic rheumatism and gout	2	2	..	..	2	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..
49. Scurvy	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50. Diabetes	21	12	9	3	15	3	..	..	4	7	5	5	..	..	..	..	..	..	..	1	..	1	3	2	5	7	2	..	..
51. Exophthalmic goitre	3	..	3	1	2	..	..	..	..	1	2	..	..	..	..	..	..	..	..	..	..	..	1	2	..	..	..	..	..
52. Addison's disease	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

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CAUSES OF DEATH.	Totals.	Sex.		Social Relation.					Nativity.					Age.													
		Males.	Females.	Single.	Married.	Widowed.	Divorced.	Unknown.	Springfield.	Mass.	Other States.	Foreign.	Unknown.	Under One.	1-2.	2-3.	3-4.	4-5.	5-10.	10-15.	15-20.	20-30.	30-40.	40-50.	50-60.	60-70.	70-80.	Over 80.	Unknown.
I. General Diseases—Continued.																											
53. Leuchæmia	3	2	1	3	..	..	..	..	1	..	..	2	..	..	..	..	..	..	1	..	1	..	..	..	1	..	..	..	..
54. Anæmia, chlorosis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
54A. Pernicious anæmia	5	3	2	1	3	1	..	..	..	1	1	3	..	..	..	..	..	..	..	..	..	..	1	1	1	2	..	..	..
55. Other general diseases	1	..	1	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
56. Alcoholism (acute or chronic)	20	13	7	4	13	3	..	..	1	8	2	9	..	..	..	..	..	..	..	..	1	5	8	3	3	..	..	..	..
57. Chronic lead poisoning	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
58. Other chronic occupation poisonings	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
59. Other chronic poisonings	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	363	189	174	152	151	57	3	..	89	81	80	112	1	22	11	8	4	5	8	7	19	32	49	49	54	52	27	16	..
II. Diseases of the Nervous System and of the Organs of Special Sense.																													
60. Encephalitis	2	..	2	1	1	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..
61. Meningitis	13	10	3	11	1	1	..	..	5	6	..	2	..	1	3	1	..	..	2	..	1	1	..	2	..	1	..	1	..
61A. Cerebro-spinal fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
62. Locomotor ataxia	3	3	..	1	1	1	..	..	..	2	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
63. Other diseases of spinal cord	7	5	2	2	4	1	..	..	..	3	2	2	..	..	..	..	..	..	1	..	1	..	..	..	2	2	..	..	..
63A. Acute anterior poliomyelitis	1	1	..	1	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
64. Cerebral hemorrhage, apoplexy	75	33	42	12	30	33	..	..	9	22	21	22	1	4	..	..	..	..	..	..	..	..	4	4	7	20	22	14	..
65. Softening of the brain	3	..	3	1	1	1	..	..	1	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	1	..	2	..	..
66. Paralysis without specified cause	3	1	2	1	2	..	..	..	1	..	1	1	..	1	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..
67. General paralysis of the insane	1	1	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
68. Other forms of mental alienation	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..
69. Epilepsy	2	1	1	1	1	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70. Convulsions (non-puerperal)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
71. Convulsions of infants	7	6	1	7	..	..	..	..	6	..	1	..	..	6	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
72. Chorea	1	..	1	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
73. Neuralgia and neuritis	2	1	1	..	2	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..
74. Other diseases of the nervous system	2	1	1	1	1	..	..	..	1	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..

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REPORT OF DEATHS, SPRINGFIELD, 1913.—CONTINUED.

CAUSES OF DEATH.	Totals.	Sex.		Social Relation.					Nativity.					Age.													
		Males.	Females.	Single.	Married.	Widowed.	Divorced.	Unknown.	Springfield.	Mass.	Other States.	Foreign.	Unknown.	Under One.	1-2.	2-3.	3-4.	4-5.	5-10.	10-15.	15-20.	20-30.	30-40.	40-50.	50-60.	60-70.	70-80.	Over 80.	Unknown.
75. Diseases of the eyes and their annexa	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
76. Diseases of the ears	1	1	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
Total	123	64	59	39	47	37	..	..	24	36	31	31	1	13	3	1	..	1	4	..	2	3	8	8	11	25	29	15	..
III. Diseases of the Circulatory System.																													
77. Pericarditis	2	1	1	..	2	..	..	..	..	1	..	1	..	..	..	.	..	..	..	..	..	..	..	1	1	..	..	..	..
78. Acute endocarditis	3	2	1	3	..	..	..	..	1	1	1	..	..	..	..	..	..	1	..	..	..	1	..	..	1	..	..	..	..
79. Organic diseases of the heart	134	69	65	25	63	45	1	..	14	28	34	58	..	1	..	..	..	1	..	..	3	4	3	9	15	24	32	31	11	..
80. Angina pectoris	14	9	5	1	9	3	1	..	..	3	4	7	..	..	..	..	..	..	..	..	..	..	..	..	2	5	2	3	2	..
81. Diseases of the arteries, atheroma, aneurism, etc	17	6	11	1	3	13	..	..	1	3	10	2	1	..	..	..	..	..	..	..	..	..	..	..	..	3	6	8	..
82. Embolism and thrombosis	5	4	1	..	3	2	..	..	..	3	1	1	..	..	..	..	..	..	..	..	..	1	..	..	..	1	1	2	..
83. Diseases of the veins (varices, hemorrhoids, phlebitis, etc.)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
84. Diseases of the lymphatic system (lymphangitis, etc.)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
85. Hemorrhage; other diseases of the circulatory system	1	1	..	1	..	..	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	176	92	84	31	80	63	2	..	17	39	50	69	1	2	..	..	..	2	..	3	4	5	9	18	31	38	41	23	..
IV. Diseases of the Respiratory System.																													
86. Diseases of the nasal fossæ	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
87. Diseases of the larynx	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
88. Diseases of the thyroid body	1	..	1	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
89. Acute bronchitis	7	2	5	2	1	4	..	..	2	..	2	3	..	1	1	..	..	..	..	..	..	..	..	..	..	..	2	3	..
90. Chronic bronchitis	8	4	4	1	2	5	..	..	1	1	2	4	..	..	1	..	..	..	..	..	..	..	..	..	1	..	4	2	..
91. Broncho-pneumonia	64	28	36	41	10	13	..	..	34	13	13	4	..	26	6	1	4	2	..	1	..	..	1	1	1	4	9	8	..
92. Pneumonia	93	53	40	38	38	17	..	..	29	22	11	31	..	15	3	2	..	1	3	..	2	6	11	15	7	10	11	7	..
93. Pleurisy	6	2	4	3	..	3	..	..	1	4	..	1	..	..	1	1	..	..	..	..	..	1	..	..	..	1	1	1	..
94. Pulmonary congestion, pulmonary apoplexy	5	1	4	4	1	..	..	..	2	2	..	1	..	3	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..

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CAUSES OF DEATH.	Totals.	Sex.		Social Relation.					Nativity.					Age.													
		Males.	Females.	Single.	Married.	Widowed.	Divorced.	Unknown.	Springfield.	Mass.	Other States.	Foreign.	Unknown.	Under One.	1-2.	2-3.	3-4.	4-5.	5-10.	10-15.	15-20.	20-30.	30-40.	40-50.	50-60.	60-70.	70-80.	Over 80.	Unknown.
95. Gangrene of the lungs	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
96. Asthma	1	1	..	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
97. Pulmonary emphysema	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
98. Other diseases of the respiratory system (tuberculosis excepted)	1	1	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Total	186	92	94	90	53	43	..	..	70	42	28	46	..	45	12	4	4	3	3	1	2	7	12	17	11	17	27	21	..
V. Diseases of the Digestive System.																													
99. Diseases of the mouth and annexa	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
100. Diseases of the pharynx	3	1	2	1	2	..	..	..	2	..	1	..	..	..	..	1	..	..	..	..	..	1	1	..	..	..	..	..	..
101. Diseases of the œsophagus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
102. Ulcer of the stomach	7	3	4	3	2	2	..	..	1	..	4	2	..	..	..	..	..	..	..	..	..	..	2	1	1	..	3	..	..
103. Other diseases of the stomach (cancer excepted)	13	6	7	4	6	3	..	..	3	2	4	4	..	1	..	..	..	..	1	..	1	1	..	2	2	3	1	1	..
104. Diarrhœa and enteritis (under 2 years)	81	46	35	81	..	..	..	..	70	5	5	1	..	73	8	..	..	..	..	..	..	..	..	..	..	..	..	..	..
105. Diarrhœa and enteritis (2 years and over)	7	3	4	5	1	1	..	..	2	1	3	1	..	..	..	..	1	..	..	..	..	1	1	2	..	1	.	..	..
106. Hookworm disease	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
107. Intestinal parasites	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
108. Appendicitis and typhlitis	13	9	4	8	5	..	..	..	2	6	3	2	..	..	..	..	..	..	4	..	..	2	2	1	2	2	..	..	..
109. Hernia, intestinal obstruction	19	8	11	6	10	3	..	..	1	4	5	9	..	..	1	1	..	..	1	..	..	..	3	3	2	4	3	1	..
110. Other diseases of the intestines	3	1	2	..	1	2	..	..	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..	1	1	..	1	..	..
111. Acute yellow atrophy of the liver	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
112. Hydatid tumor of the liver	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
113. Cirrhosis of the liver	6	2	4	2	3	1	..	..	..	2	2	2	..	..	..	..	..	..	..	..	..	..	1	..	4	1	..	..	..
114. Biliary calculi	3	..	3	..	3	..	..	..	1	..	2	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	1	..	..
115. Other diseases of the liver	8	1	7	2	3	3	..	..	..	1	4	3	..	..	..	..	..	..	..	..	..	1	..	2	1	2	2	..	..
116. Diseases of the spleen	1	..	1	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..

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CAUSES OF DEATH.	Totals.	Sex.		Social Relation.					Nativity.					Age.														
		Males.	Females.	Single.	Married.	Widowed.	Divorced.	Unknown.	Springfield.	Mass.	Other States.	Foreign.	Unknown.	Under One.	1-2.	2-3.	3-4.	4-5.	5-10.	10-15.	15-20.	20-30.	30-40.	40-50.	50-60.	60-70.	70-80.	Over 80.	Unknown.
117. Simple peritonitis (non-puerperal)	6	3	3	2	3	1	..	..	..	2	1	3	..	..	..	..	..	..	..	..	..	2	..	2	..	..	2	..	..
118. Other diseases of the digestive system (cancer and tuberculosis excepted)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	170	83	87	114	40	16	..	..	83	23	34	30	..	74	9	2	2	..	6	..	1	10	10	14	14	13	13	2	..
VI. Non-venereal Diseases of the Genitourinary System and Annexa.																													
119. Acute nephritis	23	13	10	10	7	6	..	..	4	6	7	6	..	2	1	..	..	..	1	1	..	4	4	5	1	2	1	1	..
120. Chronic Bright's disease	137	74	63	19	66	52	..	..	13	34	46	44	..	..	..	..	..	..	..	1	..	3	9	17	18	28	46	15	..
121. Chyluria	1	..	1	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
122. Other diseases of the kidneys and annexa	2	1	1	1	1	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
123. Calculi of the urinary passages	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
124. Diseases of the bladder	6	5	1	..	5	1	..	..	..	2	3	1	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	2	..
125. Diseases of the urethra, urinary abscess, etc	3	3	..	1	..	2	..	..	..	1	1	1	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	1	..
126. Diseases of the prostate	4	4	..	1	..	3	..	..	..	1	2	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2	..
127. Non-venereal diseases of the male genital organs	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
128. Uterine hemorrhage (non-puerperal)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
129. Uterine tumor (non-cancerous)	2	..	2	1	..	1	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..
130. Other diseases of the uterus	2	..	2	1	..	1	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..
131. Cysts and other tumors of the ovary	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
132. Salpingitis and other diseases of the female genital organs	3	..	3	1	2	..	..	..	..	..	1	2	..	..	..	..	..	..	..	..	..	1	1	..	1	..	..	..	..
133. Non-puerperal diseases of the breast (cancer excepted)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	183	100	83	85	82	66	..	..	18	45	63	57	..	8	1	..	..	..	1	2	..	10	15	23	21	34	51	22	..

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CAUSES OF DEATH.	Totals.	Sex.		Social Relation.					Nativity.					Age.												
		Males.	Females.	Single.	Married.	Widowed.	Divorced.	Unknown.	Springfield.	Mass.	Other States.	Foreign.	Unknown.	Under One.	1-2.	2-3.	3-4.	4-5.	5-10.	10-15.	15-20.	20-30.	30-40.	40-50.	50-60.	60-70.	70-80.	Over 80.	Unknown.
VII. The Puerperal State.																												
134. Accidents of pregnancy	2	..	2	1	1	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..
135. Puerperal hemorrhage	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
136. Other accidents of labor	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
137. Puerperal septicæmia	7	..	7	..	7	..	..	..	..	2	..	5	..	..	..	..	..	..	..	..	1	1	5	..	..	..	..	..	..
138. Puerperal albuminuria and convulsions	4	..	4	.	4	..	..	..	1	..	1	2	..	..	..	..	..	..	..	..	..	3	1	..	..	..	..	..	..
139. Puerperal phlegmasia alba dolens, embolus, sudden death	1	..	1	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
140. Following childbirth (not otherwise defined)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
141. Puerperal diseases of the breast	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	14	..	14	1	13	..	..	..	1	4	1	8	..	..	..	..	..	..	..	..	1	5	8	..	..	..	..	..	..
VIII. Diseases of the Skin and Cellular Tissue.																													
142. Gangrene	2	1	1	1	..	1	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..
143. Furuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
144. Acute abscess	1	1	..	1	..	..	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
145. Other diseases of the skin and annexa	1	1	..	1	..	..	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	4	3	1	3	..	1	..	..	2	1	1	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..
IX. Diseases of the Bones and of the Organs of Locomotion.																													
146. Diseases of the bones (tuberculosis excepted)	4	1	3	2	2	..	..	..	..	1	1	2	..	..	1	..	..	..	..	..	..	1	1	..	1	..	..	..	..
147. Diseases of the joints (tuberculosis and rheumatism excepted)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
148. Amputations	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

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CAUSES OF DEATH.	Totals.	Sex.		Social Relation.					Nativity.					Age.													
		Males.	Females.	Single.	Married.	Widowed.	Divorced.	Unknown.	Springfield.	Mass.	Other States.	Foreign.	Unknown.	Under One.	1-2.	2-3.	3-4.	4-5.	5-10.	10-15.	15-20.	20-30.	30-40.	40-50.	50-60.	60-70.	70-80.	Over 80.	Unknown.
IX. Diseases of the Bones and of the Organs of Locomotion.—Continued.																												
149. Other diseases of the organs of locomotion	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	4	1	3	2	2	..	..	..	..	1	1	2	..	..	1	..	..	..	..	..	..	..	1	1	..	1	..	..	..
X. Malformations.																												
150. Congenital malformations (stillbirths not included)	25	13	12	25	..	..	..	..	22	2	1	..	..	24	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	25	13	12	25	..	..	..	..	22	2	1	..	..	24	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
XI. Diseases of Early Infancy.																												
151. Congenital debility, icterus, and sclerema	38	20	18	38	..	..	..	..	35	3	..	..	..	38	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
151B. Premature birth	55	36	19	55	..	..	..	..	53	..	..	..	2	54	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
152. Other diseases peculiar to early infancy	10	3	7	10	..	..	..	..	10	..	..	..	..	10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
153. Lack of care	1	1	..	1	..	..	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	104	60	44	104	..	..	..	..	99	3	..	..	2	103	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
XII. Old Age.																												
154. Senility	11	1	10	1	1	9	..	..	..	4	3	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	9	..
Total	11	1	10	1	1	9	..	..	..	4	3	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	9	..
XIII. Affections Produced by External Causes.																												
155. Suicide by poison	3	2	1	..	3	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	..	..	..	..	..
156. Suicide by asphyxia	2	1	1	..	..	2	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..
157. Suicide by hanging or strangulation	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
158. Suicide by drowning	3	3	..	1	1	..	1	..	..	2	1	..	..	..	..	..	..	..	..	..	..	1	1	1	..	..	..	..	..
159. Suicide by firearms	7	6	1	..	5	1	..	1	..	1	3	2	1	..	..	..	..	..	..	..	..	2	1	2	..	1	..	1	..
160. Suicide by cutting or piercing instruments	1	1	..	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..

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REPORT OF DEATHS, SPRINGFIELD, 1913.—CONTINUED.

CAUSES OF DEATH.	Totals.	Sex.		Social Relation.					Nativity.					Age.													
		Males.	Females.	Single.	Married.	Widowed.	Divorced.	Unknown.	Springfield.	Mass.	Other States.	Foreign.	Unknown.	Under One.	1–2.	2–3.	3–4.	4–5.	5–10.	10–15.	15–20.	20–30.	30–40.	40–50.	50–60.	60–70.	70–80.	Over 80.	Unknown.
XIII. Affections Produced by External Causes.—Continued.																											
161. Suicide by jumping from high places	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
162. Suicide by crushing	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
163. Other suicides	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
164. Poisoning by food	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
165. Other acute poisonings	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
166. Conflagration	1	1	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
167. Burns (conflagration excepted)	15	8	7	14	1	..	..	..	8	3	..	4	..	2	1	3	1	2	4	..	1	1	..	..	..	..	..	..
168. Absorption of deleterious gases (conflagration excepted)	6	5	1	5	1	..	..	..	1	1	1	2	1	1	..	..	..	..	1	..	..	..	..	..	1	2	1	..
169. Accidental drowning	6	5	1	6	..	..	..	..	4	..	1	1	..	1	..	..	..	1	1	1	2	..	..	..	..	..	..	..
170. Traumatism by firearms	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
171. Traumatism by cutting or piercing instruments	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
172. Traumatism by fall	15	13	2	9	2	4	..	..	2	2	1	10	..	..	..	1	..	..	..	..	..	5	1	2	..	2	3	1	..
173. Traumatism in mines or quarries	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
174. Traumatism by machines	5	5	..	4	1	..	..	..	2	..	..	3	..	..	..	..	..	..	..	1	1	2	..	..	1	..	..	..
175. Traumatism by other crushing (vehicles, railroads, landslides, etc.)	20	18	2	10	7	2	..	1	1	3	3	12	1	..	..	..	..	..	..	2	..	6	2	4	3	2	1	..	..
176. Injuries by animals	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
177. Starvation	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
178. Excessive cold	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
179. Effects of heat	2	1	1	..	1	1	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..
180. Lightning	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
181. Electricity (lightning excepted)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
182. Homicide by firearms	2	1	1	1	1	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..

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REPORT OF DEATHS, SPRINGFIELD, 1913.—CONTINUED.

CAUSES OF DEATHS.	TOTALS.	SEX.		SOCIAL RELATION.					NATIVITY.					AGE.														
		Males.	Females.	Single.	Married.	Widowed.	Divorced.	Unknown.	Springfield.	Mass.	Other States.	Foreign.	Unknown.	Under One.	1-2.	2-3.	3-4.	4-5.	5-10.	10-15.	15-20.	20-30.	30-40.	40-50.	50-60.	60-70.	70-80.	Over 80.	Unknown.
XIII. Affections Produced by External Causes.—Continued.																												
183. Homicide by cutting or piercing instruments	1	1	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
184. Homicide by other means	3	2	1	1	1	..	..	1	1	..	1	..	1	..	..	..	..	..	..	..	..	1	1	..	1	..	..	..	..
185. Fractures (cause not specified)	3	2	1	1	1	1	..	..	1	1	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..
186. Other external violence	1	1	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Total	96	76	20	54	26	12	1	3	24	13	13	42	4	..	1	4	1	3	6	4	4	20	10	12	7	9	6	4	..
XIV. Ill-defined Diseases.																												
187. Ill-defined organic disease	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
188. Sudden death	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
189. Cause of death not specified or Ill-defined	5	4	1	5	..	..	..	..	5	..	..	..	..	2	..	1	1	..	1	..	..	..	..	..	..	..	..	..	..
Total	5	4	1	5	..	..	..	..	5	..	..	..	..	2	..	1	1	..	1	..	..	..	..	..	..	..	..	..	..
TOTALS	1464	778	686	656	495	304	6	3	454	294	306	401	9	295	39	20	12	14	29	17	33	98	122	141	150	188	196	111	1

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COMPARISON OF DEATHS FROM PRINCIPAL DISEASES IN PERCENTAGES PER 1,000 POPULATION BY YEARS.

Causes.	1908	1909	1910	1911	1912	1913
Anterior Poliomyelitis,	..	..	.281	.01	.103	.009
Apoplexy,	.503	.51	.66	.89	1.04	.743
Bright's Disease (Chronic),	1.42	1.61	1.69	1.65	1.76	1.358
Cancer,	1.04	.783	.944	.91	.969	1.1
Diphtheria,	.294	.391	.427	.097	.154	.158
Diabetes,	.196	.154	.179	.228	.267	.208
Enteritis (under 2 years),	.343	.403	1.02	.847	.886	.812
Heart Disease,	1.14	1.03	1.21	1.52	1.43	1.328
Measles,	.012	.083	.134	.108	.092	.089
Pneumonia,	1.19	1.47	1.51	1.17	.74	.921
Scarlet Fever,	.09	.28	.21	.02	.02	.029
Tuberculosis (Pulmonary),	.85	1.04	.80	.83	.76	.722
Typhoid Fever	.27	.13	.14	.19	.15	1.198
Whooping Cough,	.024	.035	.25	.14	.134	.059
Suicides,	.22	.17	.21	.15	.22	.158
Traumatism,	.46	.33	.65	.43	.43	.396
Homicides,	..	.01	.04	.04	.06	.059

TABLE SHOWING MORTALITY IN PERCENTAGES PER 1,000 INHABITANTS FOR ALL DISEASES AT DIFFERENT AGE PERIODS.

Age Periods	1912	1913	Age Periods	1912	1913
5–10	.237	.287	40–50	1.629	1.398
10–15	.123	.168	50–60	1.557	1.487
15–20	.319	.327	60–70	1.948	1.863
20–30	1.165	.921	70–80	1.814	1.943
30–40	1.124	1.209	Over 80	1.114	1.130

Respectfully submitted,

THOMAS F. REARDEN, M.D.,
EDGAR H. GUILD, M.D.,
PHILIP V. ERARD,
Board of Health.

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REPORT

OF THE

INSPECTOR OF ANIMALS

SPRINGFIELD, MASS., January 17, 1914.

Hon. John A. Denison, Mayor, Springfield, Mass.

DEAR SIR:—I have the honor to herewith submit my report as Inspector of Animals for the past year.

Pursuant to instructions received from the Department of Animal Industry of this State, the annual inspection was conducted from February 1 to March 15. This inspection covers the barns, regarding cleanliness, their ventilation and light, sources of water supply and drainage, as well as an examination of each animal concerning their health.

The animals inspected were as follows:—

Cows	312
Heifers	90
Calves	47
Bulls	17
Sheep	25
Goats	8
Swine	369

making a total of 868 animals which are kept in 127 different places within our city limits. In making this annual inspection, should I have occasion to find fault with any condition of the animal or of the barn in which it is kept, regarding more especially sanitary conditions, it is then necessary for

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me to pay one or more visits to the place complained of, and to see if my suggestions concerning a betterment of such conditions have been carried out. If they have not, a report is then sent to the Department of Animal Industry, who at once sends a State Inspector to compel the owner to clean up under pain of prosecution. In May month I made second inspections of 30 such places, and in October, 11 more places, and am pleased to say that in every instance the owners had fully complied with the law, without using stringent measures.

On October 29, 1913, a new regulation was issued from the Commissioner of Animal Industry concerning the importation of horses from the states of New York, Rhode Island, and Connecticut. This order compels all persons importing such animals to first apply for a permit, then to notify the local Inspector of Animals on the arrival of such in his city or town. If unaccompanied with a health certificate, it is the duty of the inspector to forthwith quarantine such animals, and report to the commissioner, who then orders an examination, and an exhibition of the blood test for glanders. This procedure necessarily puts a vast amount of extra work on the inspector.

During the past year, I have had only one reported case of glanders, which, on examination, proved negative. I examined three cows for tuberculosis, one of which was quarantined and killed, and the others were free from infection.

On complaint of the Police Department, I examined a dog that had been shot by an officer, after having bitten a woman on the street, and which was reported as rabid. The animal's head was sent to Boston for further examination and one week afterward the Department of Animal Industry reported that rabies did not exist in the subject.

In addition to my other duties, I examined and quarantined 26 cows coming from another state, which, when they proved all right, were released. We have been fortunate in having

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no cases of infection or contagious disease beyond the ordinary ones of distemper, both in horses and dogs.

Respectfully submitted,

HARRY LUKES,
Inspector of Animals.

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FOURTH ANNUAL REPORT

OF THE

BUILDING DEPARTMENT

SPRINGFIELD, MASS., December 29, 1913.

To the Honorable City Council of the City of Springfield.

GENTLEMEN:—In accordance with the provisions of Part 1, Section 1, of the Building Ordinance of 1912, a report of the business of the Building Department, beginning January 1, and ending December 31, 1913, is herewith respectfully submitted.

In common with nearly all other cities in this country, Springfield's building activities for 1913 show a decrease when compared with the high record of a year ago. During the past year, 763 permits for new buildings have been issued, as against 870 for 1912—a decrease of 12⅓ %. The total estimated cost of building operations this year, $5,047,465, compared with last year's record of $6,292,494, shows a decrease of 19%. This decrease in Springfield seems to be largely due to the building of fewer two and three family houses and tenement houses. The number of three-family houses was 23 less, two-family houses 32 less, and tenement houses 20 less than for 1912.

There seems to be no lack of enthusiasm, or enterprise, nor yet of demand for this class of buildings, the only hindrance seems to be a great and sudden decrease in the supply of mortgage money with which to carry on such operations. To explain why this is so is left to those who are better versed in the mysteries of finance than your Building Commissioner.

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BUILDING OPERATIONS BY THE CITY OF SPRINGFIELD.

Last year the City of Springfield itself did a very small amount of building, but during the present year the City has been a large builder, as shown by the list of new buildings and additions.

New Buildings.

Ward 8—Colton Street,	Storage Building,	$51,741
Ward 4—Summer Street,	Office and Scale,	1,200
Ward 1—West Street,	Incinerator,	8,000
Ward 8—State Street,	Power House,	16,000
Ward 8—Colton Street,	Shed,	2,500
Ward 1—Armory Street,	Park Shelter,	800
Ward 2—Emery Street,	Storage,	23,500
Ward 8—State Street,	Almshouse Shed,	100
Ward 5—State Street,	School,	750,000
Ward 3—Summer Street,	Wagon Shed,	700
	Total,	$854,541

Additions.

Ward 1—Chestnut Street,	Rooms in School,	$3,000
Ward 2—N. Main Street,	Fire Station,	10,815
Ward 8—State Street,	Almshouse,	10,000
Ward 7—374 Central St.,	School,	831
Ward 8—Colton Street,	Steel Tower,	125
Ward 1—Jefferson Ave.,	School,	1,100
Ward 7—Pine Street,	Fire Station,	1,000
Ward 1—Chestnut Street,	Shelter at School,	150
Ward 8—Eastern Avenue,	Buckingham School,	124,138
	Total,	$151,159
	Total of New Buildings and Additions,	$1,005,700

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INSPECTION OF HOTELS AND LODGING HOUSES.

As required by the Statutes, the Building Department, during the month of May, inspected fifty-three (53) hotels and lodging houses, containing in all 2,821 rooms, and a report stating the conditions and means of escape in the event of a fire was duly sent to the Chief of the State Police.

Nineteen (19) special inspections of lodging houses have been made during the year.

NEW QUARTERS.

For lack of a suitable place (owned by the City) the Building Department occupied for three (3) years, until October 25, 1913, a room on the first floor of the Odd Fellows' Building at 48 Pynchon Street. On the above date, the department moved into its new and convenient quarters in the Administration Building.

UNSAFE BUILDINGS.

The owners of three unsafe buildings have been notified of their dangerous condition, and the buildings have been strengthened and made safe.

ESTIMATES OF SAFE LOADS FOR FLOORS IN WAREHOUSES, ETC.

In compliance with Part VI, Section 51, of the Building Ordinance, fifteen (15) floors of warehouses have been surveyed, and estimates of the safe loads that each floor will sustain have been posted in a conspicuous place above the floor to which they relate.

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ROOF SIGNS.

The construction work of five (5) roof signs has been approved.

ELEVATORS.

During the present year, a special committee was appointed (by authority of the Legislature) by his Excellency Governor Foss, to write a new "Elevator Law" to be applicable over the entire State, its requirements to be enforced by the inspectors of buildings in cities and towns. The committee has asked for an extension of time in which to frame the new law. The law, as finally approved, will probably become effective early in the coming year.

During the present year, the construction work and safety devices of fifteen (15) new elevators have been examined and approved. Ten (10) special examinations of elevators have been made.

BOARD OF APPEAL.

A number of Applications for Permits have been refused, and during the year the laws have been enforced. There have been no appeals from the decisions of the Building Commissioner.

A copy of the report and recommendations of the Board of Appeal is attached hereto.

THE TABLES.

Following are tables showing the number of permits granted for building and allied operations, together with the estimated cost of same, number of inspections, etc.

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BUILDING PERMITS GRANTED

From Jan. 1 to Dec. 31, 1913.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Additions,	21	20	29	49	42	26	29	23	32	26	21	14	332
Alterations,	10	18	16	30	27	25	20	19	18	17	18	16	234
Bakeries,											2		2
Factories,			1	2	1	2		1					7
Garages,	4	2	18	25	23	16	14	6	19	17	8	8	160
Houses—three family,	3	8	7	9	6	2	4	5	1	7	5	4	61
Houses—two family,	25	19	13	28	8	14	10	9	8	13	8	13	168
Houses—one family,	4	2	17	12	10	16	9	11	7	9	15	4	116
Library,									1				1
Laundry,					1								1
Schools,											1		1
Stables,	2	1	3	4	5	2	3	1	7		5	3	36
Stores,	2		2	2	5	3	1	2	2	4			23
Storage,	8	5	8	7	5	5	6	8	7	5	3	2	69
Store and Office,	1		1					1		1		1	5
Store and Tenement,			2	1		3	1		1	1	1	1	11
Tenements,	2	4	3	2		3	1	3	2	2	2	6	30
Tenement and Garage,			1										1
Theatres,				1		1				1			3
Warehouses,			1			1							2
Miscellaneous,	3	3	5	7	8	5	8	6	7	5	5	4	66
Totals,	85	82	127	179	141	124	106	95	112	108	94	76	1,329

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ESTIMATED COST OF NEW BUILDINGS

From Jan. 1 to Dec. 31, 1913.

WARD	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
1	$27,285	$14,550	$53,215	$50,750	$40,635	$19,300	$33,835	$33,540	$45,465	$23,870	$10,250	$49,200	$401,895
2	2,400		118,100	50	34,840	36,256	36,000	4,525	17,350	16,050	4,240	27,000	296,811
3	400	230	103,050	112,000	1,900	52,000	45,000	44,000		47,000	2,000	5,000	412,580
4	35,000		100	37,200	5,000			14,000	500		700		92,500
5	5,175	19,000	66,000	2,600	10,000	13,500	650		18,400	24,120	750,430		909,875
6		47,000	3,500		600	13,800	16,000		1,600	16,325	11,300		110,125
7	104,525	100,530	96,810	89,900	51,900	86,375	31,075	52,615	28,885	42,815	51,250	87,950	824,630
8	72,267	24,050	135,800	129,850	108,145	186,525	62,535	92,030	47,410	106,550	93,550	152,250	1,210,962
Totals	$247,052	$205,360	$576,575	$422,350	$253,020	$407,756	$225,095	$240,710	$159,610	$276,730	$923,720	$321,400	$4,259,378

NOTE:—In addition to the above, "Verbal Permits" have been given (and recorded) for 181 building operations, costing less than $25.00 each and aggregating $3,761.00.

COMPARATIVE STATISTICS

Table showing the comparative number and cost of building operations since the creation of the Building Department.

	New Buildings	Cost	Additions and Alterations	Cost	Total Costs
1910*	194	$1,410,892	89	$83,043	$1,493,935
1911	704	4,230,140	505	665,823	4,895,963
1912	870	5,507,434	619	785,060	6,292,494
1913	763	4,259,378	566	788,087	5,047,465

* For three months only (Oct., Nov., Dec.).

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ESTIMATED COST OF ADDITIONS AND ALTERATIONS

From Jan. 1 to Dec. 31, 1913.

WARD	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
1	$1,200	$135	$5,860	$9,050	$14,890	$25,575	$1,950	$1,075	$2,100	$1,575	$4,675	$4,225	$72,310
2	1,300	4,025	150	2,710	12,850	5,700	5,800	3,300	37,550	5,650	1,900	800	81,735
3	12,700	34,625	14,350	21,440	35,710	1,700	27,475	17,825	21,750	34,003	10,075	3,050	234,703
4	16,350	85	500	18,940	11,930	14,425	2,800	700	1,250		3,325	1,050	71,355
5	2,575	14,200	1,475	1,450	8,650	3,920	1,325	1,450	2,240	1,850	2,575	300	42,010
6	2,480	2,775	6,025	1,550	3,725	40	1,385	2,080	2,400	200	50	1,150	23,860
7	1,825	1,200	2,525	7,585	1,450	20,190	2,431	510	3,125	3,500	3,600	250	48,191
8		1,995	4,625	22,925	21,615	15,125	5,975	6,845	2,000	3,990	1,375	127,453	213,923
Totals	$38,430	$59,040	$35,510	$85,650	$110,820	$86,675	$49,141	$33,785	$72,415	$50,768	$27,575	$138,278	$788,087

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VIOLATIONS OBSERVED AND CORRECTED

Building without permit,	55
Dangerous buildings,	3
Dangerous chimneys,	30
Defective construction,	37
Defective furnace or smokepipe,	32
Flue lining omitted,	9
Installing heater without permit,	9
Lathing without notification,	23
No shield over heater,	54
Omission of firestops,	120
Woodwork touching chimney,	15
Miscellaneous,	28
Total,	415

CLASSIFICATION OF BUILDINGS

	Number		Cost	
	Wood	Brick	Wood	Brick
Additions and alterations,	423	143	$228,949	$559,138
Bakeries,		2		40,900
Factories,	1	6	500	301,500
Garages,	138	22	29,120	59,165
Houses—three family,	61		293,230	
Houses—two family,	168		791,750	
Houses—one family,	112	4	321,830	28,500
Laundry,		1		26,000
Library,		1		29,500
Schools,		1		750,000
Stables,	23	13	17,010	40,450
Stores,	10	13	16,040	71,930
Storage,	58	11	78,912	119,961
Store and office,		5		174,000
Store and tenement,	7	4	31,150	78,500
Tenements,	14	16	120,000	225,500
Tenements and garage,		1		60,000
Theaters,		3		119,000
Warehouses,		2		113,520
Miscellaneous,	47	19	27,590	293,820
Totals,	1,062	267	$1,956,081	$3,091,384

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BUILDING OPERATIONS—BY WARDS

	Wards								
	1	2	3	4	5	6	7	8	Totals
Additions,	46	36	40	29	41	21	47	72	332
Alterations,	34	23	55	19	21	19	31	32	234
Bakeries,		1						1	2
Factories,			1					6	7
Garages,	15	3		5	13	3	67	54	160
Houses—three family,	19				3		16	23	61
Houses—two family,	24				1		96	47	168
Houses—one family,	2			1	1		41	71	116
Laundry,		1							1
Library,	1								1
Schools,					1				1
Stables,	12	7		2		2	2	11	36
Stores,	6	6	2		2	2	3	2	23
Storage,	18	11	2	2	4	1	6	25	69
Store and office,			4	1					5
Store and tenement,	1				1		2	7	11
Tenements,	4	5		1	2	8	5	5	30
Tenements and garage,					1				1
Theatres,			3						3
Warehouses,		1	1						2
Miscellaneous,	14	6	7	2	2		9	26	66
Totals,	196	100	115	62	93	56	325	382	1,329

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INSPECTIONS BY THE BUILDING INSPECTORS

Table showing number of inspections each month, and for what purpose.

	New Buildings	Alterations Additions	Special	Fires	Totals
January,	240	58	28		326
February,	227	76	19	6	328
March,	202	81	33		316
April,	292	52	35	4	383
May,	222	67	57	1	347
June,	307	90	27	1	425
July,	301	111	24		436
August,	177	138	37		352
September,	242	155	28		425
October,	258	90	18		366
November,	213	99	15		327
December,	201	75	15	2	293
Totals,	2,882	1,092	336	14	4,324

NUMBER OF STEAM BOILERS INSTALLED

From January 1 to December 31, 1913.

	Wards								
	1	2	3	4	5	6	7	8	Totals
January,	12			5		1	12	9	39
February,	9		1	3	3	2	17	16	51
March,	4			1	2		32	4	43
April,							9	1	10
May,	1		1		2		27	2	33
June,	10			4	2	1	16	6	39
July,	8			2	1	2	32	13	58
August,	4	1			3	1	4	4	17
September,	1		1	2	1		11	3	19
October,	7	2		3	3	1	6	4	26
November,	6		1	1	1		10	16	35
December,	2	2			1	2	8	7	22
Totals,	64	5	4	21	19	10	184	85	392

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NUMBER OF HEATING FURNACES INSTALLED

From January 1 to December 31, 1913.

	Wards								
	1	2	3	4	5	6	7	8	Totals
January,	27	2	1	2	2		26	13	73
February,	5				6	1	14	23	49
March,	2						27	3	32
April,	6						8	9	23
May,								5	5
June,	20			1	1		7	33	62
July,					7		7	2	16
August,							2	6	8
September,	11				1		6	15	33
October,	5	5		6		4	12	8	40
November,	9	1		2		1	8	11	32
December,					1		1	1	3
Totals,	85	8	1	11	18	6	118	129	376

NOTE:—Permits have been granted for the installation of eight bake ovens.

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ELECTRICAL INSPECTIONS.

This year has been a very busy one for this part of the department, and many hours of overtime have been spent by the inspectors of electric wires, apparatus, etc. This is largely due to the ignorant and careless way in which much of the electrical work is done. The most bungling workman and merest tyro alike are at present allowed to make electrical installations, whereas it is the most scientific, most dangerous, and least understood of anything that goes into a building.

The tables on the next page, while accurate, give only a slight idea of what the inspectors of this work have to contend with. It will be noticed that nearly one third of the installations are found defective after this department has been notified that the work is ready for inspection.

In this table of "Defective Installations," the entire installations only count as one (1), while the number of actual, separate defects might vary from one to half a dozen or twenty. In some cases the entire installation is in a dangerous condition and wrong—from the main switchboard to the outlets,—yes, and even the fixtures.

Some improvement ought to be made in these methods. Perhaps it might be well to license electricians. Such a system has proved to be practicable and beneficial in other trades and vocations. There is much need of some advancement here.

Approximately three hundred (300) copies of the "National Electrical Code" have been handed to electricians and others who are interested.

There have been issued to the United Electric Light Company and others, 1,074 Certificates for Electric Service, each of these certificates allowing for one or more meters, the largest building requiring twenty-five (25) meters.

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ELECTRICAL INSPECTIONS

Table showing number of inspections made from Jan. 1 to Dec. 31, 1913.

Inspections	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
New installations,	241	188	175	208	268	226	236	215	206	219	194	150	2,526
Old installations,	16	4	10	10	7	5	10	11	3	8	7	8	99
Additions and alterations,	122	88	95	50	84	87	71	75	84	109	103	108	1,076
Temporary work,	3	3	6	6	4	3	1		3	3	4	6	32
New electric signs,	4	3		3	7	2			1	8	2	4	34
Totals,	386	286	286	277	370	323	318	301	297	347	310	276	3,767

Table showing number of defective installations discovered and corrected during the year from Jan. 1 to Dec. 31, 1913.

Defective Installations	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
New installations,	88	62	52	76	89	62	57	61	60	62	60	39	768
Old installations,	14	2	9	7	6	4	5	9	3	6	5	8	78
Additions and alterations,	47	21	25	18	24	20	15	20	24	24	28	27	293
New electric signs,	3	2		1	4					3		2	15
Totals,	152	87	86	102	123	86	77	90	87	95	93	76	1,154

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PLUMBING.

The work of Inspection of Plumbing has gone on smoothly throughout the year.

The number of permits to perform plumbing exceed the number issued last year by approximately 3%, while the number of fixtures installed is 15% less than for last year.

During the year, five thousand and eighty-eight (5,088) inspections have been made.

The work of reinspection of old systems of plumbing in the buildings in the congested part of the City has been carried on whenever opportunity offered, and about fifty (50) of these have been examined and defects repaired.

Two (2) prosecutions for violation of the plumbing laws have been made during the year, and in each case a fine was imposed.

Following are tables showing the number of permits, inspections, fixtures, etc.

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PLUMBING

Table showing number of Permits, Inspections, and Violations—1913.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Permits for work in new buildings,..	45	25	58	41	43	52	44	32	35	36	39	32	487
Permits for work in old buildings,...	57	38	64	89	92	71	59	59	75	81	60	59	804
Regular inspections,.....	519	370	413	459	449	464	311	389	401	396	323	324	4,818
Special investigations,.....	24	10	17	27	13	12	9	55	24	29	33	17	270
Violations,.....	4	8	10	12	7	12	4	6	12	13	7	12	121

Table showing number of Fixtures installed during 1913.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Water closets,.....	159	86	245	221	215	333	132	123	149	203	164	194	2,224
Lavatories,.....	153	72	256	218	178	251	112	104	125	140	136	130	1,975
Baths,.....	103	60	186	158	130	166	99	87	105	84	112	122	1,412
Laundry trays,.....	93	54	173	157	119	125	72	78	77	66	96	62	1,172
Sinks,.....	118	75	193	183	158	160	110	108	118	122	141	148	1,634
Urinals,.....	4		2		1	17	3	6	4	13			50
Totals,.....	630	347	1,055	937	801	1,152	528	506	578	628	649	656	8,467

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GAS FITTING

Table showing number of Permits, Inspections, and Violations from Jan. 1 to Dec. 31, 1913.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Permits granted,	72	41	70	71	84	74	67	54	50	61	46	38	728
Inspections made,	498	270	486	383	552	485	395	366	362	332	254	250	4,633
Number of defects,	35	11	40	47	23	28	22	18	18	22	11	16	291

NOTE:—During the year six hundred and twenty-four certificates have been issued to the Springfield Gas Light Co. for meters and service.

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This is to make a note of the passing of one of our fellow inspectors,—

ABNER P. LESHURE, who died September 22, 1913. Fireman for sixteen years; Chief of the Fire Department for twenty-three years; Inspector of Buildings for seventeen years, and an Inspector in this department for three years.

He lived respected, honored, and beloved.

IN CONCLUSION.

In conclusion I wish to thank all members of the City Government for their token of assurance, the Law Department for its helpful advice, and the officers and men of the Fire and Police Departments who by their friendly co-operation have aided us in enforcing the law.

Respectfully,

FRED W. LUMIS,

Building Commissioner.

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REPORT

OF

BOARD OF APPEAL

SPRINGFIELD, MASS., December 29, 1913.

The Honorable City Council of Springfield:—

The Board of Appeal begs leave to report that during the year 1913 no questions have been referred to them for decision.

The Board has had no opportunity to consider the so-called Tenement House Act now before you, but would respectfully ask that your Council give it most careful and exhaustive consideration.

Very respectfully,

BOARD OF APPEAL,

By G. C. GARDNER, *Chairman.*

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REPORT OF THE

CITY SOLICITOR

SPRINGFIELD, MASS., December 30, 1913.

To the City Council of the City of Springfield.

GENTLEMEN:—The department of law submits this report of its doings for the year just closing.

It has carried on the prosecution or defense of sixty-six matters in litigation in the courts. Of this number, forty-seven were upon its docket a year ago and nineteen have been added during the current year. Of the sum total, it has carried eighteen matters to final disposition and now has forty-eight matters, a number of which are duplicate actions, pending.

The actions referred to in last year's report as having to do with the Little River Water System, with one exception remain unfinished. The cases of Vincent E. Barnes and Ellen L. Barnes, petitioners, are now in process of trial, and have claimed the attention of one member of the department, every week day excepting six, for the last two months. Several dates have been set for beginning the water damage cases before a commission, only to be changed on account of the duration of the Barnes cases. The present year should see their final disposition.

In addition to the above matters in courts of law, the department has appeared in seven matters before the Legislature, chief among which was the matter of the Dwight and Water Street extensions. It has also represented the City in five matters before the Railroad or Public Service Commission, three matters before the County Commissioners, and in numerous other matters before commissions and committees of the Commonwealth.

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It has drawn sixty-nine contracts, varying in importance from that for the Commercial High School downward, seventy-five bonds, as well as various licenses, permits, deeds, leases and ordinances. It has been asked to give and has given one hundred and three written opinions on various questions of law, and its members have been consulted by officers of the City freely, as they should have been.

The mere chronicle of the matters handled might be made more intelligible by the statement that the conduct of the City's legal business has taken a considerable portion of the time of the assistant city solicitor, and practically all the time of the city solicitor.

Heretofore the City's law offices have been those of the officers of its law department, furnished by them, together with other facilities for doing business, as a part of the service rendered. Such an agreement was of necessity objectionable. The assignment and equipment of offices in the Administration Building for the department should prove a most important step in overcoming this objection. It should make, not only for a uniform system of doing business, but also for the permanency and availability of the records of business done. More than that, it puts the City in a position where it may create a department of law, the personnel of which may be reasonably permanent. If the permanency of men is as important as the permanency of records and if the best legal talent available is as important as the best method of doing business, the City might well avail itself of the opportunity.

As a plan for effecting this result the City might consider a law department composed of three men. The first of these should be a man of the highest attainments, both in the field of municipal law and in advocacy. His duties should be chiefly advisory, and he should conduct the City's most important litigation. The performance of such duties should demand only a portion of his time. The second man in the

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department should be a lawyer of ability and a specialist in municipal law. He should devote all his time to the duties of the department, and should have no office other than that in the Administration Building. He should conduct the general business of the department and his office should be reasonably permanent. The third member of the department might well be a younger man. Upon him should devolve, under the direction of his superiors, routine office work, the investigation and preparation of cases for trial, and the prosecution in the Police Court of Springfield of criminals whose offenses would warrant prosecution by the City in the exercise of its police power.

Respectfully submitted,

SCOTT ADAMS,

City Solicitor.

JOSIAH DEARBORN,

Assistant City Solicitor.

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REPORT

OF THE

PARK COMMISSIONERS

To His Honor, the Mayor, and the City Council of Springfield, Massachusetts:—

As required by the Revised Laws of the Commonwealth of Massachusetts of 1902, Chapter No. 28, Section No. 13, entitled "of Public Parks, Playgrounds, and Public Domain," the Board of Park Commissioners of the City of Springfield have the honor to submit their thirty-first (31st) annual report for the year ending November 30, 1913.

FINANCIAL STATEMENT.

RECEIPTS.

Maintenance Account, appropriation,	$41,175 00	
Transferred from Construction Account,	2,400 00	
		$43,575 00
Construction Account, appropriation,	$19,800 00	
Transferred to Maintenance Account,	2,400 00	
		17,400 00
		$60,975 00

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EXPENDITURES.

Maintenance Account:		
On account of Forest Park,	$40,456 61	
On account of small parks,	3,339 35	
	$43,795 96	
Less transfers,	226 00	
	$43,569 96	
Balance returned to Treasurer,	5 04	
		$43,575 00
Construction Account:		
On account of Forest Park,	$11,975 92	
On account of small parks,	4,708 90	
Transferred to Pension Fund,	63 00	
Balance returned to Treasurer,	652 18	
		17,400 00
		$60,975 00

PLAYGROUNDS.

RECEIPTS.

Appropriation,	$12,780 00

EXPENDITURES.

Maintenance:		
Instruction and supervision,	$6,641 83	
Labor and care,	2,763 74	
Material and supplies,	1,728 45	
New Work:		
Labor account,	737 41	
Material and supplies,	691 45	
Balance to City Treasurer,	217 12	
		$12,780 00

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BAND CONCERTS.

RECEIPTS.

Appropriation,		$500 00

EXPENDITURES.

Odd Fellows' Band,	$121 25	
Knox Band,	121 25	
2d Regiment Band,	123 75	
Springfield Brass Band,	123 75	
Balance to City Treasurer,	10 00	
		$500 00

COURT SQUARE EXTENSION.

RECEIPTS.

Balance from 1912,	$38,544 65	
E. A. Stephens Co. (loam),	121 00	
Interest,	917 77	
		$39,583 42

EXPENDITURES.

Salaries and wages,	$3,995 78	
Engineering services, water connection and material,	3,152 40	
Balance to 1914 Account,	32,435 24	
		$39,583 42

DRINKING FOUNTAINS.

RECEIPTS.

Appropriation, Maintenance,	$125 00	
Ice,	500 00	
		$625 00

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EXPENDITURES.

Care and maintenance,	$124 84	
H. E. Gibbs, ice,	466 60	
Park Department, ice,	30 00	
Balance to City Treasurer,	3 56	
		$625 00

GERRISH PARK.

RECEIPTS.

Balance from 1912,	$748 39

EXPENDITURES.

Labor Account, maintenance and upkeep,	$55 75	
Balance to 1914 Account,	692 64	
		$748 39

MENAGERIE BUILDING ACCOUNT.

RECEIPTS.

Balance from 1912,	$60 84

EXPENDITURES.

O. C. Alderman,	$32 00	
Homer Foot & Co.,	3 92	
Balance to 1914,	24 92	
		$60 84

INDIAN ORCHARD TENNIS COURTS.

RECEIPTS.

Appropriation,	$800 00

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EXPENDITURES.

Labor,	$667 86	
Material,	110 68	
Balance,	21 46	
		$800 00

SPECIAL APPROPRIATION, PUBLIC SANITARY.

RECEIPTS.

Appropriation,	$500 00

EXPENDITURES.

Republican Co., advertising,	$1 10	
Daily News Co., advertising,	1 25	
Thos. M. James, award,	200 00	
Bruno Wozny, award,	100 00	
B. H. Seabury, award,	50 00	
Balance to 1914,	147 65	
		$500 00

By vote of the City Council Trinity Terrace was transferred to this department, making the number of parcels of land forty-nine (49), with a total area of 595.48 acres.

In addition to the usual attention required in maintaining these several plots such changes and improvements have been made as seemed most needed.

At Forest Park one of the most appreciated improvements has been the filling of the ravine on the main entrance drive from Sumner avenue. This work was started a year ago, and several thousand yards of filling were required to make this change. The road has been macadamized and fully meets the requirements of the great crowds which have occasion to enter the park at this place. Heretofore, owing to the steep grade and the narrowness of the roadway, travel has been

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extremely dangerous. In connection with this change a new road is being built from this drive through the ravine to the meadow road, and when completed will give easy access to the lower level of the park.

In spite of all efforts to control the ravages of the chestnut bark disease, many of our chestnut trees have already become so affected as to necessitate their being cut down, and unless some other means of controlling this is soon discovered, it will not be many years before all of our chestnut trees will be gone. The great numbers of gray squirrels at Forest Park, carrying this disease from tree to tree, make any present known method of treating these trees very unsatisfactory. The loss of these trees will necessitate very generous tree planting for the next few years.

Many of the roads at Forest Park have been resurfaced, some with macadam and others with gravel, but owing to the great amount of travel they receive, especially from automobiles, such treatment is only of a temporary character. The foundation of these roads is well adapted for a more durable wearing surface, such as bituminous asphalt. This could be put down for about seventy-five cents per square yard, and would insure a permanent pavement that would last at least ten or twelve years. We urge a liberal appropriation for this work.

The collection of birds and animals continues to be one of the attractive features at the park, and each year finds a steadily growing interest in the menagerie. The gift of an African lioness from Mr. Stanford L. Haynes, a pair of Indian leopards, together with a number of the smaller animals and birds, have been added to the collection.

At Van Horn Reservoir park the roadway laid out last year has been covered with cinders and rolled, and makes a very satisfactory road for light travel, at the same time providing an excellent foundation for permanent road construc-

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tion. Nearly all of the dead trees have been removed, and many of the remaining ones trimmed. Some two thousand young trees, principally white pines, have been set out, and fifteen hundred rhododendron and mountain laurel have been placed there. Many of the rhododendron and laurel planted last year died, undoubtedly from the effects of the severe drouth of last season. Several hundred plants of forget-me-nots have been planted in the ravines. A tract of land containing nine and one-quarter acres has been purchased from Peter and Timothy Hogan as an addition to the park on the easterly side, and will permit the building of the drive around the ravines without disturbing the natural beauty of this section of the park. When the remaining land on the north is secured this road can be extended around the lake to Armory street, and will make one of the most attractive pleasure drives in the city. A liberal appropriation for the further development of this park should be made.

The suggestion made a year ago that Stearns Square should be sold and the proceeds used to purchase a large tract of land in the northerly end of the city for a park, met with such general opposition that those interested have let the matter drop. A number of unsuccessful attempts have been made in recent years to widen Stearns Square streets by taking several feet of land from the park, in order that the abutters might have more generous width of walks in front of their property as well as wider streets. The value of the land required for this scheme amounts to about one hundred thousand dollars, and it might be well to ask that in case Stearns Square was owned by an individual if the city would feel justified in paying this amount for the benefits to be derived. An entirely new phase of this question presents itself in the form of a petition to the City Council asking that the alleyway leading from Main street be extended through Stearns Square to the one leading to Chestnut street. This petition was referred to

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the Board of Public Works, which board has absolutely no jurisdiction over Stearns Square. It may be pertinent at this time to call to the attention of those interested in diverting or appropriating any part of this land for any other purpose than that for which it was given, that this board has condemned Stearns Square, thus protecting for all time the integrity of the gift. Springfield has been the recipient of too many generous donations, especially of parks and playgrounds, to allow a few citizens to dictate what use should be made of them. As early in the spring as the weather will permit, this square will be regraded, new walks built to accommodate the present travel, trees and shrubs set out and flower beds added.

Court Square Extension has been graded and turfed, curbing set and sidewalks laid.

PLAYGROUNDS.

The past year has been one of unusual interest and activity, and we are pleased to report a very satisfactory year in this particular branch of our work. Fifteen playgrounds and two swimming pools were in operation during the past year. Playgrounds have come to be a well-established part of our municipal life, and are coming to be more and more recognized as one of the great factors in dealing with present social conditions. Not only does the playground furnish what the child wants and must have, but to be of the greatest good to the community they must also provide something in the line of recreation and amusement for those of more mature years. We believe Springfield playgrounds are doing just this.

Two new playgrounds were opened the past season. The small tract of land on Court Square Extension between Water street and the railroad was inclosed by a fence, such apparatus

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as the size of the ground would permit was placed there, and with instructors in charge this playground was opened to the children in this section. It proved so popular that it was kept open till 9 o'clock at night six nights during the week. The absence of children playing in the streets since the playground was opened was favorably commented on by those having occasion to drive through these streets. Another playground was established at the Homer street school. While the space for play was very limited, the attendance and interest manifested were very gratifying, showing that a larger play field in this section should be established.

The playground formerly located on Armory street was moved to the Van Horn Reservoir Park. Here ample room for baseball and other sports is available, while the beautiful grove overlooking the lake furnishes an ideal place for such other activities as a playground requires. A shelter was built here and used in connection with the playground work.

In addition to the swimming pool at Watershops Pond, new bathing accommodations were provided at Loon Pond, Indian Orchard. An appropriation of $200 was made by the City Council for this purpose, a small bath house was built for the use of women, and a small inclosure for the use of the men was also erected. Two men and one woman as instructors and life guards were stationed here. The natural facilities for bathing here are far superior to those at Watershops Pond, while the attendance was equally as great. We recommend and urge either leases for a term of years, or what would be still better, that the city purchase sufficient land at both of these places to control this privilege. Better and more commodious accommodations should then be provided.

Four tennis courts were built on Holly street, Indian

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Orchard, but owing to the lateness of the season before they were completed, they were not used.

EVERETT H. BARNEY,
ANDREW J. FLANAGAN,
DANIEL J. MARSH,
THEO. R. GEISEL,

Board of Park Commissioners.

CHARLES E. LADD, *Secretary.*

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REPORT

OF THE

BOARD OF LICENSE COMMISSIONERS

To His Honor, the Mayor, and the City Council of the City of Springfield:—

The Board of License Commissioners beg to submit their annual report for 1913.

For the purpose of comparison as to the number of licenses of each class granted, and the receipts from them during the last thirty years, we insert from the Municipal Register the following figures:—

YEAR.	CLASS.							Total.	Receipts.
	1st.	2d.	4th.	5th.	6th.	7th.	Club.		
1884	....	....	....	....	27	....	....	27	$27 00
1885	66	11	73	8	....	....	....	158	46,225 00
1886	26	4	28	2	1	....	....	61	20,850 00
1887	....	....	....	....	....	....	....	....	.....
1888	60	6	40	4	26	....	2	138	48,526 00
1889	28	1	8	2	31	....	2	72	47,731 00
1890	26	....	9	2	27	....	1	65	51,227 00
1891	30	....	12	2	33	....	2	79	60,783 00
1892	38	....	4	2	32	....	2	78	63,832 00
1893	39	....	3	2	31	....	3	78	65,231 00
1894	39	....	3	2	30	....	4	78	65,530 00
1895	39	....	3	2	30	....	4	78	65,784 00
1896	44	....	4	2	36	....	4	90	76,237 00
1897	45	....	4	2	34	....	3	88	76,278 17
1898	44	....	5	2	35	....	3	89	77,134 00
1899	44	....	5	2	34	....	5	90	77,636 00
1900	44	....	5	2	34	....	5	90	84,535 00
1901	53	....	57	2	36	....	4	*100	100,709 00
1902	54	1	59	2	35	....	3	*100	102,937 00
1903	54	1	58	3	36	....	3	*101	102,236 00
1904	53	1	58	3	35	....	4	*101	102,186 00
1905	53	1	58	3	36	....	4	*98	102,186 00
1906	53	1	58	3	36	....	4	*102	100,391 00
1907	53	1	58	3	36	....	4	*102	122,988 00
1908	53	1	58	3	35	....	6	*104	123,438 00
1909	54	1	59	3	36	1	6	*106	125,390 00
1910	54	1	59	3	38	1	6	*108	125,392 00
1911	54	1	49	3	41	....	4	*127	145,793 00
1912	56	....	38	3	44	....	4	*130	143,448 00
1913	56	....	39	3	47	....	4	*134	143,439 00

*No. of Licensed Places.

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The Licenses granted to date of this report, to expire May 1, 1914, are as follows:—

COMMON VICTUALERS—FIRST CLASS.

To sell liquors of any kind to be drunk on the premises ($1,500 each).

Beach & Kane,	173 Chestnut street.
Biscotti, Frank,	191 Chestnut street.
Blackmer, Charles J., & Co.,	333 Water street.
Breglio, P. A., & Co.,	300 Worthington and 384 Dwight streets.
Bresnahan, James F., & Co.,	483 Main and 18 Market streets.
Burke, Thos. J., & Co.,	521 Main and 4 Stockbridge streets.
Cone, Wm. H., & Co.,	11 Hampden street.
Coughlin, John H.,	116 State street.
Crowley, M. J., & Co.,	485 State and 3 Walnut streets.
Curran, Wm. J., & Co.,	15 Sanford and 25 Market streets.
Delaney, Bernard J., Co.,	603 Main street.
Donovan Bros.,	179 Main and 11 Ferry streets.
Duquette, A. H., & Co.,	552 Main street.
Guyott & Co.,	225 Main street.
Higgins, Jos. W., & Co.,	545-547 Main street.
Hohenberger, H. S., & Co.,	3 Pynchon street.
Kelley, A., & Co.,	167 Bridge street.
Lange, Theodor, & Co.,	249 Bridge street.
Lennehan, J. J., & Co.,	215-217 Worthington street.
Lubold, H. E., & Co.,	11 Lyman street.
Maloney, Patrick F., & Co.,	50 Sanford and 26 and 30 Dwight streets.
Murphy, Wm. J., & Co.,	45-47 Market street.
O'Brien & Reagan,	121 Lyman street.
Phillips, C. W., & Co.,	64 Bridge and 71 Water streets.
Reidy, John A., & Co.,	201 Main and 2 Liberty streets.
Reilly & Toole,	69, 71 and 73 Market street.
Roos, Maximilian, & Co.,	69 Water street.
Scully, J. F., & Co.,	660½ Main street.
Shea, John J.,	864 North and 86 Essex streets.
Sollace, Geo. E.,	190 Main street.
Splaine Bros.,	12 Sanford and 34 Market streets.
Sullivan, P. F., & Co.,	209 Chestnut and 131 Lyman streets.
Toomey & Cody Co.,	143 Main and 8 Congress streets.
Walsh, John J.,	23 Walnut street.

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Walsh & McInerney,	3, 5, and 7 E. Court and 50 Market streets.
Welch & Collins,	191 Main street.
Winkler Bros.,	63 Bridge and 79 Water streets.
Young, William M.,	145 Main street.

Number of Common Victualers' First Class Licenses, 41.

WHOLESALERS—FOURTH CLASS (CLASS W).

To sell liquors of any kind not to be drunk on the premises ($2,000 each).

Barry, Garratt S.,	271 Bridge and 6-8 Barnes streets.
Coats, E. M., Co., Inc.,	5-11 Market street.
Flanaghan, Terrence, Co.,	100 State street.
Glickman & Kushner,	169½ Main street.
Jefferson & Deeley,	192 Worthington street.
Rieutord, Chas. E.,	146 Main street, Indian Orchard.
Ryan, S. A., & Co., Inc.,	183 Main street.
Tone, Phil, & Co.,	591 Main and 125 Union streets.
Toomey & Cody,	135, 137, 139 and, 141 Main street.
Young, Wm. M.,	147-147½ Main street.

Number of Fourth Class Licenses, Class W, 10.

FOURTH CLASS (CLASS R).

To sell liquors of any kind not to be drunk on the premises ($1,500 each).

Beach & Kane,	171A Chestnut street.
Breglio, P. A., & Co.,	386-388 Dwight street.
Curran, Wm. J., & Co.,	17 Sanford street.
Delaney, Bernard J., Co.,	599 Main street.
Dillon, James, & Co.,	704 Main street.
Henking, Gus C., Co.,	119 Lyman street.
McNamara, Dennis,	163 Main street, Indian Orchard.
Mitchell, Patrick J.,	732 Main and 5 Lombard streets.
Murphy, C. J., & Co.,	319 Worthington street.
Murphy, William J., & Co.,	19 East Court street.
Spaight, Daniel,	188 Main street.
The Howard Co.,	207 Chestnut street.
Walsh, John J.,	19 Walnut street.

Number of Fourth Class Licenses, Class R, 13.

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WHOLESALE DRUGGIST—FOURTH CLASS.

To sell liquors of any kind (to drug trade only) not to be drunk on the premises ($600 each).

Brewer, H. & J., Co.,	404 Dwight and 67 and 73 Taylor streets.

Number of Wholesale Druggists' Fourth Class Licenses, 1.

BREWERS—FIFTH CLASS.

To sell malt liquors, cider, and light wines, not to be drunk on the premises ($2,700 each).

Liberty Brewing Co.,	Corner Liberty and Charles streets.
Springfield Breweries Co.,	Fort, Water and Hampden streets.
Springfield Breweries Co.,	1273 State street.

Number of Brewers' Licenses, 3.

INNHOLDERS—FIRST AND FOURTH CLASSES.

To sell liquors of any kind ($2,250 each).

The Nelson-Haynes Hotel,	8, 10, and 12 Pynchon street.
Edgar & Hartenstein,	The Russell, 222 and 224 Main street.
Gilmore Hotel Co.,	418-428 Main street.
Grise, Chas., & Co.,	National House, 13 Oak street, Indian Orchard.
Court Square Hotel,	92-96 State street, 12-14 Court House place, and 29 Elm street.
Hampden Hotel Company,	134 Chestnut and 415 Bridge streets.
The Bellevue,	267-269 Main and 4-6 Taylor streets.
Henking Hotel,	15-17 Lyman street.
Indian Leap Hotel,	179 Main street, Indian Orchard.
Chandler Hotel,	Southwest corner Main and Bliss streets.
Marsh, H. E., & Co.,	Cooley's Hotel, corner Main and Liberty streets.
McCarthy, John J., & Co.,	American House, 243-249 Main street.
Sievers, D. H., & Co.,	Highland Hotel, corner Hillman and Barnes streets.
Vogel's Hotel,	93-95 State street.
Worthy Hotel,	303 Main and 169, 171, and 187 Worthington streets.

Number of Innholders' First and Fourth Class Licenses, 15.

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DRUGGISTS—SIXTH CLASS.

To sell liquors of any kind for medicinal, mechanical, and chemical purposes only ($1.00 each).

Adams, Chas. F.,	54 Walnut street.
Anderson, Edmond C.,	279 North Main street.
Barker, Irving R.,	32 Main street.
Beauvais, Joseph,	570 Main street.
Blanc, Neil,	728 North street.
Chenette, Joseph E.,	164 Main street, Indian Orchard.
Clancy, Daniel M.,	152 Main street, Indian Orchard.
Coolbroth, Frank H.,	360 Bay street.
Cunningham, Alex. W.,	272 Worthington street.
Curley, James E.,	296 Hancock street.
Dearborn, Harold W.,	1081 State street.
Delehanty, James W.,	492 Mill street.
Dickinson, Homer F.,	298 Belmont avenue.
Dooley, Timothy J.,	267 Central street.
Erard, Phillip V.,	369 Chestnut street.
Fortier, Ullyses E.,	429 Main street.
Hapgood, Edwin O.,	463 Main street.
Hayn, Herman E.,	807 Main street.
Johnson, Marshall R.,	188 State street.
Keefe, Daniel F.,	180 Hancock street.
Leighton, Percy A.,	21 White street.
Leonard, Edwin F.,	72 Main street.
Lerche, Albert E.,	325 Main street.
Lohr, Albert H.,	438 Chestnut street.
Longtin, Rosario E.,	245 Bay street.
McCarthy, Thomas F.,	512 Sumner avenue.
McGinty, John A.,	511 Worthington street.
Merriam, William C. B.,	643 Main street.
Nagle, William,	369 Chestnut street.
Noble, William B.,	167 Chestnut street.
Page, Otto A. F.,	377-379 Main street.
Powers, George H.,	846 Worthington street.
Rice, William K.,	593 Main street.
Ryan, Charles V.,	194-196 Main street.
Sadler, William L.,	530-532 Main street.
Sexton, Charles S.,	477 State street.
Smith, Fred H.,	372 Belmont avenue.

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Smith, John D.,	271 Main street.
Stone, Frank S.,	410 Main street.
Sunter, Alex. E.,	85 Wilbraham road.
Taylor, Albert W.,	326 North Main street.
Thompson, Frederick W.,	503 Main street.
Welch, John H.,	554 Belmont avenue.
Wheeler, Fred N.,	802 State street.

Number of Druggists' Licenses, 47.
Two abandoned December 1.

CLUB.

To distribute and dispense intoxicating liquors to members ($300 each).

B. K. Bruce Club,	542 Main street.
Nayasset Club,	61-71 State street.
Springfield Lodge of Elks, No. 61,	cor. Chestnut and Worthington streets.
Springfield Turn Verein,	79-83 State street.

Number of Club Licenses, 4.

Number of First, Second, Fourth, and Fifth Class Licenses	28
Number of Sixth Class Licenses,	47
Number of Club Licenses,	4
Total	133

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There were 125 Special Sunday Licenses granted, at $5.00 each, for the sale of ice cream, confectionery, fruit and soda on the Lord's Day. Also 100 Common Victualers' and 5 Innholders' Licenses granted, at $5.00 each.

Meetings were held on December 18, 27; January 27; February 7, 14, 28; March 18, 29; April 3, 23, 30; May 15; June 3, 14, 24; July 5, 22; September 17, 22; October 16, 23; November 3, 26, 29.

On May 15 Campagna & Devine surrendered their First Class Common Victualers' License, granted them for the current year to be exercised on the premises at No. 191 Chestnut street, and it was thereupon voted that the said license be canceled under the provision of Chapter 171, Section 1, of the Acts of 1902.

On May 15 a First Class Common Victualers' License was granted to Frank Biscotti, to be exercised on the premises at No. 191 Chestnut street, one room on the first floor and basement beneath the same.

On June 14 The Donovan Bros. surrendered their First Class Common Victualers' License, granted them for the current year to be exercised on the premises at No. 179 Main and 11 Ferry streets; it was thereupon voted that said license be canceled under the provision of Chapter 171, Section 1, of the Acts of 1902.

On June 14 a First Class Common Victualers' License was granted to Martin J. Donovan and Lillian C. Donovan to be exercised on the premises at No. 179 Main and 11 Ferry streets, two rooms on the first floor and basement beneath the same.

On June 14 John J. Walsh surrendered his First Class Common Victualers' License, granted him for the current year to be exercised on the premises at No. 23 Walnut street; it was thereupon voted that said license be canceled under the provision of Chapter 171, Section 1, of the Acts of 1902.

On June 14 a First Class Common Victualers' License was

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granted to Jeremiah B. Donovan, Helen E. Donovan, and Jeremiah Donovan, Sr., to be exercised on the premises at No. 23 Walnut street, two rooms on the first floor and basement beneath the same.

On September 17 Glickman & Kushner surrendered their Fourth Class Wholesale License, granted them for the current year to be exercised on the premises at No. 169½ Main street; it was thereupon voted that said license be canceled under the provision of Chapter 171, Section 1, of the Acts of 1902.

On September 17 a Fourth Class Wholesale License was granted to Isaac Kushner and Fannie Kushner, to be exercised on the premises at No. 169½ Main street, one room on the first floor and basement beneath the same.

On September 22 Joseph W. Higgins and Ambrose C. Higgins, doing business as the J. W. Higgins Company, surrendered their First Class Common Victualers' License, granted them for the current year to be exercised on the premises at No. 545 Main street; it was thereupon voted that said license be canceled under the provision of Chapter 171, Section 1, of the Acts of 1902.

On September 22 a First Class Common Victualers' License was granted to Fred L. Farland and Elizabeth T. Farland, to be exercised on the premises at No. 545 Main street and under the firm name of Fred L. Farland & Company, one front room and three rear rooms on the ground floor of the monitor building at 545 Main street and basement of building adjoining at 547 Main street.

On December 27, 1912, after a hearing the license of Raoul J. Vezzina, a druggist, was suspended from January 1, 1913, to March 31, for selling liquor on the Lord's Day without a physician's prescription.

On February 7, 1913, Erhard F. Vogel was given a hearing before the Board; they had been convicted in the Police Court,

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charged with selling liquor on the Lord's Day to people other than guests and his license was suspended for five (5) days.

On March 18 after a hearing the license of the Gilmore Hotel Co. was suspended for five (5) days for selling liquor on the Lord's Day to people not guests, and on the same date the Board ordered the suspension of the license of James L. Hawkins, proprietor of the Hotel Bellevue, for five (5) days for selling liquors to people not guests of the hotel.

TRANSFERS.

December 29, 1912, the First Class Common Victualers' License of the Mansion House Co. was transferred from 510 Main street to 106 Ferry street and 619 North Street, first floor and basement beneath the same.

May 15, 1913, Jefferson & Deely's Fourth Class Wholesale License was transferred from 192 Worthington street to 214 Worthington street.

October 23 Toomey & Cody Co., on application duly advertised, was given permission to annex the store at No. 135 Main street for their wholesale department; their numbers now being 135-137-139-141 Main street.

November 3 the First Class Common Victualers' License of C. J. Murphy & Co. at 315 Worthington street and 349 Dwight street was transferred to 329 Worthington street; the Fourth Class Wholesale License was transferred to 333 Worthington street on the same date.

June 28 the Fourth Class Liquor License of John J. Walsh was transferred from 23 Walnut street to 25 Walnut street.

October 16 the Druggist License of C. V. Ryan was transferred to 194-196 Main street.

June 2 a Druggists' License was granted to Ullyses E. Fortier at 429 Main street.

June 11 a Druggists' License was granted to Marshall R. Johnson at 188 State street.

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The expenses of the Board for the year are as follows:—

Rent,	$300 00
Salary, chairman,	250 00
Printing and advertising,	110 50
Salary, clerk,	150 00
Stationery and postage,	1 25
All other,	15 00
Total,	$826 75
Amount received for recording licenses,	412 00
Net expenses of the Board,	$414 75

Respectfully submitted,

JOHN H. CLUNE,
CHAS. P. CHASE,
HUGH J. DONNELLY,

Board of License Commissioners.

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CITY CLERK'S REPORT

CITY CLERK'S OFFICE, ADMINISTRATION BUILDING.
January 5, 1914.

To the City Council of the City of Springfield:—

I herewith submit the following report for the year ending November 30, 1913.

The amount of fees received by me for official services, from December 1, 1912, to December 1, 1913, is as follows, said sum having been paid by me to the City Treasurer:—

For marriage certificates	$1,054 00
For copies of record	172 30
For recording and indexing dog licenses	472 80
For examining record	1 75
For kerosene certificates	2 00
For express licenses	157 00
For itinerant vendors' licenses	34 40

For recording and indexing the following papers:—

Mortgages on personal property	$465 20
Discharges of mortgages	43 50
Assignments of mortgages	7 75
Voluntary assignments	18 00
Attachments of personal property	3 00
Recording assignments	18 75
Bills of sale	34 75
Notices	50
Notices of foreclosure	6 70
Married women's certificates	15 50
Discharges of married women's certificates	25
Statement	25
Leases	6 05

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Assignments of leases	$0 75
Agreements	1 55
Contracts	16 05
Releases	50
Interest	36 55
	$2,569 85

In addition to the foregoing, there has been received for applications for pool table licenses $77.00, and the sum of $50.25 has been paid for advertising said applications, leaving a balance of $26.75, which has been paid to the City Treasurer. There has also been paid to the County Treasurer the sum of $5,232.20, being the amount due the county of Hampden for dog licenses, less fees for recording, from December 1, 1912, to December 1, 1913. The sum of $1,669.00 amount due for 8 hunters' licenses at $15.00 each, 3 at $10.00 each, and 1,519 at $1.00 each, has been paid to the State.

E. A. NEWELL, *City Clerk.*

SPRINGFIELD, MASS., January 5, 1914.

I hereby certify that the foregoing report of the City Clerk is correct, as per his records and receipts on file in his office.

WM. G. McINTYRE,
City Auditor.

The number of marriage intentions filed during the year is	1,046
The number of marriages for the year is	1,294
The number of deaths for the year is	1,698
The number of births for the year is	3,064

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VOTERS AND REGISTRATION.

The following table shows the number of men and women who registered as voters in 1912 and 1913:—

1912.					1913.				
Ward.	Precinct.	Men.	Women.	Total.	Ward.	Precinct.	Men.	Women.	Total.
1	A	99	1	100	1	A	64		64
1	B	77		77	1	B	56		56
1	C	87	3	90	1	C	65	1	66
1	D	69	10	79	1	D	49	3	52
1	E	78	5	83	1	E	65	2	67
2	A	67	4	71	2	A	77		77
2	B	60	2	62	2	B	59	1	60
3	A	58	4	62	3	A	17	1	18
3	B	52		52	3	B	23		23
4	A	111	5	116	4	A	14		14
4	B	140	14	154	4	B	31		31
5	A	100	7	107	4	C	27	1	28
5	B	87	2	89	4	D	17	6	23
6	A	56	1	57	5	A	34	10	44
6	B	103	1	104	5	B	47	1	48
7	A	69	4	73	6	A	41		41
7	B	114	1	115	6	B	51	5	56
7	C	160	7	167	7	A	17		17
7	D	108	1	109	7	B	21	1	22
8	A	167	3	170	7	C	24	2	26
8	B	113	5	118	7	D	30	2	32
8	C	99	4	103	7	E	32	1	33
					7	F	20	3	23
		2,074	84	2,158	8	A	24	2	26
					8	B	44		44
					8	C	30	2	32
					8	D	21		21
					8	E	49		49
							1,049	44	1,093

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The following table shows the number of assessed polls and the number of men and women on the voting list at the city elections December, 1912 and 1913:—

1912.					1913.				
Ward.	Precinct.	Assessed Polls.	Men.	Women.	Ward.	Precinct.	Assessed Polls.	Men.	Women.
1	A	1,118	557	2	1	A	1,249	585	1
1	B	1,011	705	6	1	B	1,041	716	6
1	C	1,054	618	10	1	C	1,088	609	9
1	D	960	610	10	1	D	1,039	631	10
1	E	1,054	655	10	1	E	1,158	695	11
2	A	1,164	650	6	2	A	1,411	654	6
2	B	1,580	469	5	2	B	1,756	456	5
3	A	880	398	8	3	A	718	331	7
3	B	871	429	1	3	B	834	370	1
4	A	1,378	761	25	4	A	583	351	9
4	B	1,387	1,007	59	4	B	879	405	17
5	A	1,121	878	48	4	C	769	544	40
5	B	1,208	782	18	4	D	631	408	20
6	A	1,177	432	4	5	A	1,166	863	54
6	B	1,405	845	15	5	B	1,179	744	14
7	A	823	515	10	6	A	1,257	439	4
7	B	1,172	888	25	6	B	1,437	785	17
7	C	1,477	1,143	12	7	A	846	512	8
7	D	1,302	1,026	32	7	B	1,236	870	24
8	A	1,701	1,094	14	7	C	766	613	22
8	B	1,399	991	31	7	D	638	501	11
8	C	1,909	746	7	7	E	962	679	8
					7	F	708	509	7
		27,146	16,189	353	8	A	733	536	27
					8	B	737	506	6
					8	C	833	516	8
					8	D	1,078	659	7
					8	E	2,050	716	6
							28,655	16,203	365

Respectfully submitted,

E. A. NEWELL, *City Clerk.*

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CITY OF SPRINGFIELD.

LIST OF JURORS, 1913.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Abbe, Herbert A.,	106 Oakland st.,	Milk Dealer, 106 Oakland st.
Adams, Aiden L.,	18 Ormond st.,	Commercial Traveler, Johnson Co., Manchester, Conn.
Adams, Walter,	44 Dover st.,	Florist, 44 Dover st.
Adams, William F.,	51 Mulberry st.,	Book Publisher, 486 Main st.
Adaskin, Herman,	46 Alfred st.,	Merchant, 234 Main st.
Addison, William,	820 State st.,	Carpenter and Builder, 820 State st.
Ager, J. Francis,	21 Pearl st.,	Dentist, 476 Main st.
Ahern, John J.,	49 Pearl st.,	Dentist, 351 Main st.
Alderman, Harry M.,	136 Firglade ave.,	Clerk, 58 Harrison ave.
Alderman, Oliver C.,	39 Mountainview st.,	Merchant, 272 Main st.
Aldrich, William O.,	40 Plainfield st.,	Clerk, 15 to 19 Lyman st.
Alexander, Alexander,	501 Belmont ave.,	Buyer, 592 Main st.
Allen, Edwin,	17 Euclid ave.,	Manager, 317 Main st.
Allen, George W.,	20 Greenleaf st.,	Plumber, 20 Greenleaf st.
Alstrom, Icilius T.,	268 Sumner ave.,	Retired.
Ambrose, Bryan F.,	15 Nelson ave.,	Foreman, 58 Harrison ave.
Ames, Herbert L.,	15 Sachem st.,	Credit Clerk, 390-396 Main st.
Anderson, Edmond C.,	122 Amherst st.,	Druggist, 79 North Main st.
Anderson, Eugene S.,	81 Clarendon st.,	Insurance Agent, 500 Main st.
Anderson, Fred,	32 Montmorenci st.,	Steam Fitter, 77-79 Dwight st.
Anderson, Henry,	191 Carew st.,	Real Estate Dealer, 191 Carew st.
Andrews, Charles E.,	137 Marion st.,	Monument Dealer, 137 Marion st.
Andrews, Orlin D.,	367 Allen st.,	Cabinet Maker, 53 Wilbraham rd.
Angell, Ethan T.,	318 North Main st.,	Foreman, Fisk ave.
Angell, William J.,	66 Pynchon st.,	Shipping Clerk, 65 Main st., Chicopee Falls.
Angers, George Arthur,	107 Marble st.,	Contractor and Builder, 327 Main st.
Annable, Leon S.,	107 Thompson st.,	Merchant, 6 Main st.
Anthony, Charles,	26 Harriet st.,	Cigar Maker, 258 Main st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Appleton, Allen L.,	334 Maple st.,	Superintendent, North Main st., Brightwood.
Armfield, Charles M.,	100 Greenwood st.,	Merchant, B. & A. Shops, West Springfield.
Arnold, Clarence H.,	53 Euclid ave.,	Jeweler, 417 Main st.
Arnold, Louis W.,	438 North Main st.,	Superintendent, 228 Birnie ave.
Asher, Albert F.,	38 Grosvenor st.,	Merchant, 50 Main st.
Ashley, George A.,	84 Cambridge st.,	Machinist, 291 Main st.
Atchinson, Walter B.,	172 Oak st., I. O.,	Electrician, Pine st., I. O.
Atherton, Frank H.,	19 Arch st.,	Clerk, B. & M. Railroad.
Atkins, Charles P.,	401 Chestnut st.,	Foreman, 279 Dwight st.
Atkins, Clarence J.,	35 Ashley st.,	Profiler, Stockbridge st.
Atkins, George M.,	51 Rutledge ave.,	Machinist, Stockbridge st.
Atkins, Percy B.,	179 Thompson st.,	Manager, Cross st.
Atkinson, James H.,	67 Alden st.,	Cabinet Maker, 349-359 Main st.
Atwood, A. Carroll,	238 White st.,	Clerk, 12 Harrison ave.
Atwood, Ernest I.,	30 Harvard st.,	Commercial Traveler, 233 Worthington st.
Atwood, William H.,	19 East Court st.,	Teamster, 19 East Court st.
Avery, Edwin F.,	238 White st.,	Machinist, 47 Taylor st.
Avery, Robert C.,	177 Wilbraham ave.,	Machinist, 837 State st.
Bailey, Fred P.,	98 Alderman st.,	Wood Moulding Maker, 850 State st.
Bailey, Henry J.,	78 Willow st.,	Motorman, Springfield St. Ry. Co., 5 Main st.
Baily, Hubert C.,	4 Dorchester st.,	Bookkeeper, 318 Main st.
Baines, Francis H.,	161 Walnut st.,	Parcel Delivery Driver, 31 Lyman st.
Baker, Donald M.,	192 Maple st.,	Clerk, 317 Main st.
Baker, Frank H.,	57 Pomona st.,	Traveling Salesman, North Adams, Mass.
Baker, Irving G.,	10 Crystal ave.,	Manufacturer, 317 Main st.
Baker, W. Harris,	108 Harvard st.,	Clerk, 29 Worthington st.
Baker, William A.,	53 Bond st.,	Painter, 141 Dwight st.
Baldwin, Thomas H.,	97 High st.,	Tool Maker, Not employed.
Bangs, John C.,	17 Church st.,	Bookkeeper, Northampton National Bank.
Bannister, Charles W.,	Cor. Main and Marble sts.,	Tool Maker, 41 Mill st.
Barber, Howard P.,	389 Main st.,	Dentist, 389 Main st.
Barber, John H.,	75 Bradford st.,	Grocer, 66 Main st.
Barnes, Edward G.,	95 Catharine st.,	Foreman, 121 Bridge st.
Barnstead, Charles E.,	6 Allendale st.,	Machinist, 156 Wason ave.
Barr, Raymond Edgar,	137 Yale st.,	Fixture Hanger, 411 Main st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Barrett, Gilbert R.,	85 Cleveland st.,	Printer, 29 Worthington st.
Barrett, Thomas J.,	74 Alexander st.,	Compositor, 279 Dwight st.
Barrus, Clifton L.,	62 Osgood st.,	Milk Peddler, 62 Osgood st.
Barry, James W.,	19 Brookline ave.,	Traffic Manager, 123 Carew st.
Barthelmes, Oscar L.,	174 Hancock st.,	Inspector, Stockbridge st.
Bartlett, Chauncey I.,	28 John st.,	Carpenter, B. & M. Railroad.
Bartlett, John L.,	510 Union st.,	Drug Clerk, Easthampton, Mass.
Bartlett, Leon E.,	106 Grenada ter.,	Clerk, 500 Main st.
Barton, Robert,	29 Bedford road,	Bookkeeper, 500 Main st.
Bassette, Frederick A.,	167 Thompson st.,	Printer and Publisher, 53 Hillman st.
Bassin, Max,	31 Clinton st.,	Merchant, 174-176 Main st.
Batchelder, Ernest E.,	66 Pomona st.,	Accountant, 283 Worthington st.
Bates, Ernest G.,	10 Berkeley st.,	Plumbing Inspector, 48 Pynchon st.
Baush, William H.,	64 Magnolia ter.,	Sales Manager, 60 Hampden st.
Bay, Joseph H.,	232 Worthington st.,	Reporter, 292 Main st.
Beahn, James F.,	14 Grosvenor st.,	Contractor, 14 Grosvenor st.
Bean, George S.,	53 Kenwood park,	Commercial Traveler, Suffield, Conn.
Beany, William J.,	168 Main st., I. O.,	Clerk, 166½ Main st., I. O.
Beardsley, Charles T.,	37 Bancroft st.,	Carpenter, 37 Bancroft st.
Bearg, Benjamin,	46 Huntington st.,	Merchant, 157 Main st.
Beaune, Charles J.,	29 Wendell ave.,	Barber, 12 Pynchon st.
Bebler, John A., Jr.,	61 Avon place,	Foreman, 58 Taylor st.
Belden, Allen M.,	104 Alden st.,	Milk Dealer, 104 Alden st.
Belden, Herbert T.,	129 Thompson st.,	Bank Teller, 241 Main st.
Belding, William C., Jr.,	135 Westminster st.,	Grocer, 451-455 State st.
Bellamy, Thomas A.,	127 Patton st.,	Boiler Maker, B. & A. Shops, West Springfield.
Bellows, Charles W.,	38 Margaret st.,	Machinist, Cross st.
Bennett, Albert G., Jr.,	30 Kenwood ter.,	Secretary, Cor. Orleans and Quincy sts.
Bennett, Chauncey A.,	53 Winthrop st.,	Butcher, 16-32 Sanford st.
Bennett, John C.,	15 Dunmoreland ave.,	Foreman, 65 Main st., Chicopee Falls.
Bergdoll, Frederick,	304 Liberty st.,	Paper Cutter, Warwick ave.
Bernstein, Louis,	33 Holyoke st.,	Tailor, 389 Main st.
Besse, Lyman W.,	29 Ingersoll Grove,	Real Estate Dealer, 21 Besse place.
Bickford, Edson W.,	Camp Ground,	Electrician, B. & A. Shops, West Springfield.
Bickley, Francis B.,	16 Woodside ter.,	Salesman, 30 and 32 Lyman st.
Bidwell, Frank E.,	601 North Main st.,	Merchant, 35 Main st.
Bigelow, James H.,	14 Irvington ave.,	Architect, 25 Harrison ave.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Bigelow, William D.,	624 State st.,	Clerk, 195 State st.
Bill, Raymond R.,	66 Dartmouth st.,	Manager, 307 Main st.
Billings, Ezra P.,	82 Bloomfield st.,	Milk Peddler, Woodside ter.
Bird, Frank G.,	1232 North st.,	Machinist, 123 Carew st.
Birnie, Marvin C.,	127 Mill st.,	Treasurer, Stafford Springs Water Co.
Biscotti, Frank,	246 Water st.,	Storekeeper, 244 Water st.
Bishop, Myron H.,	27 Daytona st.,	Salesman, 16 Taylor st.
Blair, William S.,	135 Union st.,	Painter.
Blague, Giles,	20 Lafayette st.,	Insurance Agent, 500 Main st.
Blair, Erwin O.,	62 Pomona st.,	Printer, 293 Main st.
Blanden, Henry H.,	457 Central st.,	Manager, 513 Sumner ave.
Bliss, Edward S.,	32 Acushnet ave.,	Appliance Manager, 35-39 State st.
Bliss, Ernest L.,	288 Main st.,	Salesman, 346 Main st.
Blodgett, Charles A.,	128 Maplewood ter.,	Shoe Dealer, 201 Worthington st.
Blodgett, E. Fred.,	402 Central st.,	Contractor, 402 Central st.
Blodgett, Edwin A.,	10 Ingraham ave.,	Lumber Dealer, St. James circle.
Blodgett, Ralph G.,	20 Massachusetts ave.,	Salesman, 162½ Chestnut st.
Boecklen, Thomas H.,	28 Acushnet ave.,	Printer, Cross st.
Booth, William H.,	34 Murray Hill ave.,	Machinist, 4 Birnie ave.
Bosworth, Frederick J.,	168 Hancock st.,	Real Estate Salesman, 381 Main st.
Bosworth, Herbert E.,	6 Temple st.,	Photographer, 121 State st.
Boussy, William H.,	38 Norwood st.,	Sheet Metal Worker, B. & M. Railroad.
Bowler, James F.,	336 Eastern ave.,	Contractor, 983 Main st.
Bowler, John J.,	328 Eastern ave.,	Cigar Maker, 309 Main st.
Bowles, Caleb W.,	28 Dorchester st.,	Proprietor, 304 Main st.
Bowles, Henry L.,	303 Main st.,	Lunch Room Proprietor, 310 Main st.
Bowman, George W.,	83 Elm st.,	Electrical Contractor, 531 Main st.
Bowman, Henry H.,	41 Mulberry st.,	President, 321 Main st.
Bowman, Henry N.,	74 Jefferson ave.,	Assistant Manager, 292 Main st.
Bowman, William George,	140½ Main st.,	I. O., Printer, Ludlow, Mass.
Boyle, Henry C.,	22 Reed st.,	Tool Maker, North Main st., Brightwood.
Bradley, Walter A.,	17 Spruce st.,	Steel Turner, Stockbridge st.
Brainard, Norman A.,	10 Chestnut st.,	Insurance Agent, 374 Main st.
Brand, John W. B.,	310 Pine st.,	President, 63 Elm st.
Brault, Lawrence,	24 York st.,	Carpenter, Glenwood.
Breck, John H.,	49 Acushnet ave.,	Specialist, 31 Elm st.
Brennan, James J.,	48 Grover st.,	Contractor and Builder, 48 Grover st.
Brick, Edward G.,	67 Fort Pleasant ave.,	Manager, Napier st.
Bridgman, Harry S.,	15 Berkeley st.,	Engineer, 405 Dwight st.
Broderick, John J.,	34 Rutledge ave.,	Motorman, 5 Main st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Brooks, Henry M.,	14 Stebbins st.,	Machinist, Stockbridge st.
Brooks, Richard S.,	68 Lakeside ave.,	Editor, 381 Main st.
Brooslin, Meyer,	11 Hebron st.,	Shoe Dealer, 149 Main st.
Broughall, Thomas F.,	142 Patton st.,	Undertaker, 61 Bridge st.
Broughton, Louis S.,	200 Northampton ave.,	Grocer, Cor. Pine and Florence sts.
Brown, Alfred Charles,	284 Main st., I. O.,	Millhand, Front st., I. O.
Brown, Arthur A.,	163 Bowles st.,	Salesman, 317 Liberty st.
Brown, Edward K.,	134 Northampton ave.,	Electrical Engineer, 3 Post Office square.
Brown, Luman S.,	182 Florida st.,	Charcoal Dealer, 317 Main st.
Bruce, William A.,	359 Central st.,	Linotype Machinist, 305 Worthington st.
Bryant, Elzear,	82 Greene st.,	Wood Turner, 850 State st.
Bryant, Henry A.,	67 Bradford st.,	President, 27 Hampden st.
Buckbee, Harry D.,	54 Byers st.,	Bookkeeper, 32 Lyman st.
Buckler, Alfred E.,	487 Belmont ave.,	Real Estate Dealer, 356 Belmont ave.
Buffington, Lloyd W.,	15 Berendo ave.,	Telegrapher, 292 Main st.
Bugbee, Eugene M.,	24 Crosby ave.,	Carriage Builder and Painter, 10-16 Hickory st.
Bugbee, Frank A.,	239 Hancock st.,	Piano Tuner, 239 Hancock st.
Bull, Harcourt Wesson,	128 Mill st.,	President, 476 Main st.
Bullard, Glenn M.,	9 Florence st.,	Clerk, Worcester st., I. O.
Bulley, George H.,	17 Howard place,	Machinist, 837 State st.
Bunker, William L.,	22 Florentine Gardens,	Manager, 18-20 Fort st.
Burdick, Arthur W.,	35 Chester st.,	Milling Department, 837 State st.
Burger, Garrett,	125 Wilbraham road,	Ice Dealer, Hickory st.
Burgin, J. Alfred,	14 Ashmun st.,	Awning Manufacturer, 96 Adams st.
Burlingame, Frederick R.,	795 Sumner ave.,	Shipping Clerk, 435 Dwight st.
Burnett, Edward W.,	30 Myrtle ter.,	Civil Engineer, 121 Bridge st.
Burnham, Erastus D.,	104 Buckingham st.,	Lumber Dealer, 104 Buckingham st.
Burt, Charles E.,	19 Belgrade place,	Printer, 331 Dwight st.
Burton, Arthur M.,	407 Sumner ave.,	Buyer, 345 Main st.
Busch, Charles R.,	124 Clayton st.,	Carpenter, 124 Clayton st.
Bush, Bert A.,	354 Bridge st.,	Painter, Dale st.
Butler, Richard T.,	155 Bay st.,	Insurance Adjuster, 303-305 Main st.
Byrne, Edward P.,	699 Belmont ave.,	Civil Engineer, 17 Hampden st.
Cady, William S.,	606 Sumner ave.,	Clerk, 9 Court House place.
Call, Arthur A.,	29 Locust st.,	Grocer, 144 State st.
Callahan, Thomas P.,	333 Franklin st.,	Foreman, 121 Bridge st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Cameron, John E.,	397 Main st.,	Manager, 141 State st.
Camp, C. Herbert,	528 Union st.,	Manager, 785-787 State st.
Campbell, Daniel W.,	20 Abbe ave.,	Building Inspector, 48 Pynchon st.
Carmody, Frank C.,	373 Armory st.,	Steam Fitter, 31 Lyman st.
Carney, John J.,	15 Cleveland st.,	Salesman, Cor. Main and Vine sts.
Carney, William J.,	15 Cleveland st.,	Pianist, 21 Wilbraham road.
Carpenter, Bert E.,	50 Cypress st.,	Not employed.
Carpenter, Homer I.,	129 Orleans st.,	Butcher, 112 Walnut st.
Carpenter, William H.,	33 Warner st.,	Real Estate Builder, 168 Bridge st.
Casey, Dennis, Jr.,	82 Wilcox st.,	Monument Dealer, 523 State st.
Casey, William T.,	3 Hillside place,	Pressman, 279 Dwight st.
Cassidy, Thomas,	Gilmore Hotel,	Stage Electrician, 286 Worthington st.
Chaffee, Frank B.,	120 Alderman st.,	Buyer, 25 Fort st.
Chamberlain, Albert A.,	132 Amherst st.,	Insurance, 500 Main st.
Chamberlin, George H.,	53 Firglade ave.,	Foreman, Stockbridge st.
Chamberlin, Joseph,	643 Sumner ave.,	Manager, 249 Main st.
Chamberlin, Willis D.,	33 Salem st.,	Bookkeeper, 34 Sanford st.
Chandler, Willie L.,	S. S. Allen st.,	Farmer, S. S. Allen st.
Chapin, Frank M.,	57 Jefferson ave.,	Machinist, 293 Main st.
Chapin, William H.,	Hotel Kimball,	Retired.
Chapman, Harvey,	138 Bay st.,	Hardware Merchant, 141 Lyman st.
Chase, Arthur E.,	5 Willow st.,	Porter, Railroad station.
Chase, Edward E.,	414 Main st.,	Porter, 260 Main st.
Chase, Junius B.,	34 Brooklyn ave.,	Lumber Dealer, 68 Birnie ave.
Chauncey, Byron A.,	98 Florence st.,	Clerk, 21 Cypress st.
Child, Robert A.,	14 Hawthorne st.,	Printer, 53 Hillman st.
Chism, David E.,	26 Hawthorne st.,	Equipment Engineer, 275 Main st.
Christopher, Handley S.,	409 Union st.,	Buyer, 349-359 Main st.
Clapp, Frank L.,	290 Bridge st.,	Machinist, 42 Taylor st.
Clapp, John T.,	8 Harvard st.,	Salesman, 130 Lyman st.
Clapp, Z. Charles,	56 Florence st.,	Steam Fitter, 56 Florence st.
Clark, Frank E.,	10 Lafayette st.,	Storekeeper, 820 State st.
Clark, Henry M.,	3 Lafayette st.,	Real Estate Dealer, 64 Worthington st.
Clark, James P.,	111 Ingersoll Grove,	Grocer, 16 Lyman st.
Clark, James W.,	320 Central st.,	Foreman, Stockbridge st.
Clark, John H.,	510 Liberty st.,	Plumber, 510 Liberty st.
Clark, Peter,	54 Roseland st.,	Peddler, 34 Roseland st.
Clark, Seth H.,	254 Pearl st.,	Division Superintendent, B. & A. R. R.
Clark, William E.,	134 Cedar st.,	Bookbinder, 269 Bridge st.
Clune, Arthur J.,	573 Main st.,	Real Estate Broker, 573 Main st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Coburn, Charles E.,	38 Palmer ave.,	Light Delivery, 21 Clinton st.
Cody, Nicholas T.,	529 Chestnut st.,	Cigar Maker, 309 Main st.
Coe, David C.,	237 Long Hill st.,	Merchant Tailor, 307 Main st.
Cohen, Harry,	267 Chestnut st.,	Grain Dealer, 284 Chestnut st.
Colburn, Dorance A.,	13 Pleasant st.,	Water Department, 121 Bridge st.
Colgrove, George H.,	18 Cherrelyn ave.,	Clerk, B. & A. Shop, West Springfield.
Collins, Frank H.,	37 Dorchester st.,	Livery Stable Keeper, 25 Sanford st.
Collins, J. Frank,	170 Florida st.,	Dealer in Cotton Waste, 156 Lyman st.
Collins, John F.,	422 Chestnut st.,	Teamster, Plainfield st.
Collins, Stephen J.,	34 Church st.,	Meat and Groceries, 10 Main st.
Collins, Timothy J.,	60 Vinton st.,	Electrician, Court House place.
Colwell, Arthur A.,	15 Locust st.,	Butcher, 656 Main st.
Colwell, Walter S.,	111 Berkshire st.,	Insurance Agent, 111 Berkshire st.
Combs, Louis E.,	115 Florence st.,	Clerk, 500 Main st.
Cone, William A.,	77 Clarendon st.,	Insurance Agent, 303-305 Main st.
Congdon, Albert B.,	54 Byers st.,	Not employed.
Conlin, Bernard J.,	42 Bancroft st.,	Plumber, 19 Worthington st.
Conlin, Frank J.,	450 Sumner ave.,	Manager, 376 Main st.
Connor, John J.,	25 Arbor st.,	Clerk, 111 Bridge st.
Converse, Melville S.,	76 Amherst st.,	Coal Dealer, 422 Main st.
Cook, Charles J.,	689 South Main st.,	Cutter, 396 Bridge st.
Cook, Edward J.,	53 Palmer ave.,	Foreman, 292 Main st.
Cook, George S.,	1462 North st.,	Merchant, 51-55 Cypress st.
Coolbroth, Edwin L.,	85 Elliott st.,	Bookkeeper, 197 Spring st.
Cooley, Benjamin,	16 Auburn st.,	Clerk, 57 Main st.
Cooley, George F.,	25 Margaret st.,	Drug Clerk, 530 Main st.
Cooley, Moses L.,	93 Acushnet ave.,	Dry Goods Merchant, 605 Main st.
Cooper, Charles F.,	179 Wilbraham road,	Manufacturer, Fairbanks ave.
Cooper, Leslie A.,	36 Alderman st.,	Machinist, 275 Main st.
Corbin, Arthur O.,	110 Florida st.,	Commercial Traveler, Austin Nichols & Co., New York.
Cordner, Thomas G.,	433 Bay st.,	Contractor, 433 Bay st.
Corliss, Thomas M.,	109 Everett st.,	Clerk, 390-396 Main st.
Cornell, Julius Myron,	18 Prospect ter.,	Dentist, 120 Main st.
Cornwell, Burton M.,	16 Brookline ave.,	Bookkeeper, Exchange st., Chicopee.
Cotter, James J.,	34 Pearl st.,	Merchant, 328 Dwight st.
Courtemarche, Fred,	120 Main st.,	Mechanic, 837 State st.
Cowles, Myron O.,	107 High st.,	Clerk, 65 Main st., Chicopee Falls.
Cowles, Raymond M.,	66 Ventura st.,	Insurance Agent, 25 Harrison ave.
Craig, L. Bertram,	501 Allen st.,	Carpet Layer, 357 Main st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Craig, Samuel,	Crestwood st.,	Machinist, Foot of Grape st., Chicopee.
Crowley, Frederick W.,	16 Applewood place,	Milkman, 120 Oakland st.
Crowley, Patrick A.,	88 Main st.,	Cigar Manufacturer, 194 Main st.
Crowningshield, Charles H.,	82 Boylston st.,	Laundryman, 57½ Bliss st.
Crowther, John C.,	437 Main st.,	Inspector, Stockbridge st.
Crowther, Stanley B.,	19 Hawthorne st.,	No occupation.
Cullen, Thomas F.,	129 Ingersoll Grove,	Wire Weaver, Warwick ave.
Cunningham, John S.,	94 Tyler st.,	Real Estate Salesman, 317 Main st.
Curley, James E.,	26 Alvord ave.,	Druggist, 296 Hancock st.
Cutler, Cassius H.,	70 Dawes st.,	Cabinet Maker, 850 State st.
Daboll, Frank G.,	66 Harvard st.,	Superintendent, 283 Worthington st.
Dale, John A.,	144 Massachusetts ave.,	Laundry Worker, 472 Union st.
Daley, Thomas E.,	62 Waverly st.,	Merchant, 374 Chestnut st.
Davidson, Henry,	57 Lebanon st.,	Canvasser, Springfield Gas Co.
Davis, Clinton B.,	33 Edwards st.,	Manager, 325 Bridge st.
Davis, Winthrop I.,	65 Firglade ave.,	Insurance Agent, 419 Main st.
Davison, Henry B.,	76 Buckingham st.,	Jeweler, 471 Main st.
Davitt, Daniel J.,	410 Liberty st.,	Proprietor, 191 Liberty st.
Day, Charles G.,	51 Marble st.,	Bookkeeper, 225 Liberty st.
Day, Robert F.,	156 Harvard st.,	Clerk, 21 Cypress st.
Day, Robert W.,	265 State st.,	President, 73 State st.
Dean, Thomas P.,	198 Belmont ave.,	Sales Manager, 369 Atlantic ave., Boston, Mass.
Dennis, Herman E.,	213 Center st.,	Carpenter, Ludlow, Mass.
Denver, Paul H.,	85 Bowles st.,	Shipping Clerk, 53 Wilbraham road.
Dexter, Albert J.,	3 Hampden st.,	Draughtsman, Pine st., I. O.
Dexter, Ernest J.,	7 Sumner ave.,	Insurance Agent, 476 Main st.
Dexter, Jenness K.,	27 High st.,	Paper Stock Dealer, 317 Main st.
Dexter, William H.,	19 Ingersoll Grove,	Real Estate Dealer, 25 Elm st.
Dibble, Burton E.,	107 Harvard st.,	Traveling Salesman, Boston, Mass.
Dillingham, Albert J.,	404 Walnut st.,	Woodworker, 43 Cross st.
Doersam, Franz Otto,	40 Murray Hill ave.,	Cigar Maker, Hampden st.
Doherty, John F.,	246 Main st.,	Dentist, 150 Main st., I. O.
Doland, Richard R.,	55 Northampton ave.,	Auditor, 500 Main st.
Donahue, Charles A.,	4 Mattoon st.,	Merchant, 42 Harrison ave.
Donahue, Frank P.,	50 Edwards st.,	Merchant, 42 Herrison ave.
Donahue, John T.,	400 Liberty st.,	Telegraph Operator, 236 Main st.
Donnellan, Thomas J.,	48 Massasoit st.,	Molder, Not employed.
Donnelly, Hugh J.,	51 Avon place,	Buyer, 424-442 Main st.
Donoghue, Michael,	117 Franklin st.,	Stone Cutter.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Donovan, James,	117½ Congress st.,	Painter.
Donovan, John T.,	56 Greenwood st.,	Clerk, 204 Main st.
Donovan, Thomas,	143 Bond st.,	Clerk, 20-26 Lyman st.
Doolittle, Frank P.,	120 Maplewood ter.,	Traveling Salesman, 258 Main st.
Dowd, George B.,	23 Beech st.,	Salesman, 317 Main st.
Dowd, John B.,	39 Portland st.,	Foreman, Brightwood.
Dowd, O. Frank,	62 Florence st.,	Tailor, 62 Florence st.
Dowd, William F.,	18 Genesee st.,	Salesman, 41-45 Hampden st.
Dowling, Edward,	78 Alexander st.,	Steam Fitter, Foot Church st., W. Springfield.
Downey, Daniel J.,	67 Bond st.,	Painter, Boston & Maine R. R.
Downey, James J.,	20 Everett st.,	Shoe Dealer, 220 Main st.
Doyle, John F.,	54 Webster st.,	Merchant, 54 Webster st.
Doyle, Michael J.,	1529 North st.,	Foreman, City.
Drake, Albert E. W.,	145 Bowles st.,	Foreman, 381 Main st.
Drake, Arthur N.,	108 North Main st.,	Sexton, First Church.
Drake, J. Frank,	91 Mulberry, st.,	Secretary, 29 Worthington st.
Drake, Thomas,	130 Everett st.,	Plumber, 13 Market st.
Dubois, Herbert E.,	20 Church st.,	Foreman, 5 North Main st.
Dubour, Frederick,	54 Wilcox st.,	Sewing Machine Agent, 31 Harrison ave.
Dumbleton, Frederick H.,	26 Euclid ave.,	Treasurer, 29 Worthington st.
Dunbar, James,	64 Cornell st.,	Custodian, 321-323 Main st.
Dunlea, Walter J.,	306 Union st.,	Bookkeeper, 599 Main st.
Dunn, James E.,	24 Congress st.,	Bookkeeper, Not employed.
Dunn, John J.,	65 Chestnut st.,	Superintendent, Worcester st., I. O.
Dunn, Peter J.,	24 Congress st.,	Clerk, 160 Main st.
Dwight, George B.,	24 Besse place,	Shipping Clerk, Hampden st.
Eagan, Thomas, Jr.,	39 Locust st.,	Cutter, 395 Dwight st.
Eaton, Raymond H.,	11 Carpenter court,	Shipping Clerk, 131 Lyman st.
Eberhardt, Oscar A.,	47 Demond ave.,	Secretary, 15 Railroad ter.
Edson, Walter Allen,	32 Belgrade place,	Auditing Clerk, 37 Harrison ave.
Edwards, Frank L.,	385 Allen st.,	Dealer in Poultry Supplies, 10 Symonds ave.
Ehni, Robert F.,	183 High st.,	Dentist, 356 Main st.
Elder, Robert A.,	182 Hampden st.,	Machinist, Pine st., I. O.
Eldred, Fred A.,	25 Westford ave.,	Druggist, Not employed.
Elmer, Nelson L.,	642 State st.,	Real Estate Dealer, 325 Main st.
Elwell, Homer F.,	49 Broad st.,	Iron Manufacturer, 284 Birnie ave.
Emerson, Clarence E.,	911 Armory st.,	Clerk, Brightwood.
Emerson, Edwin,	99 Jefferson ave.,	Foreman, Front st., Mittineague.
Eminger, Hermann D.,	65 State st.,	Superintendent, 65 State st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Engle, William F. A.,	26 Riverview ter.,	Musical Manager, 26 Riverview ter.
English, Thomas,	378 North Main st.,	Publisher, 216 Worthington st.
Erard, Philip Valmore,	402 North Main st.,	Druggist, 398 North Main st.
Erickson, Louis G.,	872 Liberty st.,	Manufacturer, 872 Liberty st.
Fahey, Andrew D., Jr.,	55 Medford st.,	Motorman, 5 North Main st.
Fairfield, George W.,	94 Bowles st.,	Real Estate Dealer, 285 Main st.
Falt, Joseph B.,	123 Ingersoll Grove,	Stone Contractor, Armory st.
Falvey, Arthur W.,	115 Linden st.,	Contractor and Builder, 115 Linden st.
Farr, Herman G.,	19 Northampton ave.,	Mechanical Engineer, 53 Wilbraham ave.
Feltham, William,	57 Catharine st.,	Real Estate Dealer, 57 Catharine st.
Fenn, George L.,	208 Ft. Pleasant ave.,	Dentist, 310 Main st.
Ferguson, George W.,	30 Maplewood ter.,	Wholesale Grocer, 14 Lyman st.
Ferrier, James Fraser,	312 Liberty st.,	Draughtsman, 284 Birnie ave.
Ferris, George H.,	111 Greenwood st.,	Laundryman, 21-25 Clinton st.
Ferry, George H.,	N. S. Berkshire ave.,	Printer, Orleans st.
Field, Arthur R.,	36 Hawthorne st.,	Salesman, 20-26 Lyman st.
Fifield, Milton S.,	46 Locust st.,	Clerk, 121 State st.
Fisher, Harold B.,	33 Central st.,	Polisher, Not employed.
Fisk, Harry G.,	367 Union st.,	Manufacturer, Oak st., Chicopee Falls.
Fitch, Charles H.,	44 Church st.,	Bookkeeper, 18 Liberty st.
Fitch, Henry W.,	83 Greenwood st.,	Blacksmith, 18 Liberty st.
Fitzgerald, Edmund,	S. S. Bay road,	Farmer, Bay road.
Flagg, Charles W.,	151 Lebanon st.,	Ice Dealer, Foot Park st., West Springfield.
Flagg, Fred M.,	32 Thompson st.,	Ice Dealer, 32 Thompson st.
Flannery, Francis P.,	49 Bradford st.,	Clerk, 349-359 Main st.
Fletcher, Harlan F.,	115 Thompson st.,	Merchant, 358 Main st.
Fletcher, J. Edwin,	96 Andrew st.,	Advertising Agent, Kensington, Pa.
Flint, Fred F.,	84 Bliss st.,	Foreman, Wason ave.
Flint, Herbert E.,	155 Catharine st.,	Civil Engineer, 121 Bridge st.
Flynn, D. Sanford,	11 Belgrade place,	Civil Engineer, 318 Main st.
Foley, John, Jr.,	67 Bradford st.,	Clerk, 130 Lyman st.
Foley, Timothy J.,	103 Bancroft st.,	Bookkeeper, 35 Lyman st.
Foley, Timothy J.,	98 Tyler st.,	Merchant, Cor. Hancock and Tyler sts.
Folsom, James L.,	127 Forest Park ave.,	Designer, 127 Forest Park ave.
Ford, William H.,	32 Ft. Pleasant ave.,	Machinist, 964 Main st.
Foster, Edwin L.,	E. S. Carew st.,	Salesman, 152 State st.
Fountain, Fred E.,	65 Knox st.,	Foreman, Heywood, cor. Warwick ave.
Fowler, Frank H.,	11 Allendale st.,	Salesman, 22 Taylor st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Fowler, Norman N.,	40 Ingersoll Grove,	Manufacturer, Riverside, Mass.
Frawley, Thomas J.,	148 Abbe ave.,	Steward.
Frenier, Maxime O.,	581 Union st.,	Draughtsman, 53 Wilbraham ave.
Fretts, George H.,	70 Pomona st.,	Salesman, 70 Pomona st.
Frickman, Jacob,	34 Bancroft st.,	Laborer, 5 North Main st.
Fronk, William C.,	464 Wilbraham road,	Draughtsman, 837 State st.
Frost, George A.,	32 Emery st.,	Cigar Dealer, 171 Main st.
Frost, Victor M.,	33 Pearl st.,	Horse Dealer, West Springfield.
Fuller, Louis E.,	36 Hawley st.,	Clerk, 7 Elm st.
Fulton, John B.,	68 Bradford st.,	Foreman, 43 Lyman st.
Furrows, Albert H.,	38 Plymouth st.,	Advertiser, 38 Plymouth st.
Furrows, Samuel E.,	43 Calhoun st.,	Bookkeeper, 258 Main st.
Gage, Charles A.,	26 Spencer st.,	Machinist, Stockbridge st.
Gagnier, Christopher I.,	Locust Hill,	Builder, 327 Main st.
Gammons, William L.,	1604 North st.,	Clerk, 500 Main st.
Gardner, George C.,	251 Rimmon ave.,	Architect, 33 Lyman st.
Gardner, James I.,	85 Ft. Pleasant ave.,	Auditor, 318 Main st.
Gates, Albert H.,	13 Hawthorne st.,	Clerk, 139 State st.
Garvey, John J.,	27 Congress st.,	Clerk, 390-396 Main st.
Gemme, Frederic,	521 Plainfield st.,	Barber, 521 Plainfield st.
George, Charles H.,	161 Walnut st.,	Foreman, Pope Mfg. Co., Westfield.
Gibbs, J. Edwin,	63 Waverly st.,	Clerk, 346 Main st.
Gilbert, Adolph W.,	140 Oak st., I. O.,	Manager, Pine st., I. O.
Gilbert, Albert F.,	55 Marble st.,	Carpenter, 28 Court st.
Gilbert, Arthur L.,	40 Homer st.,	Florist, 40 Homer st.
Gleason, Albert M.,	156 Main st.,	Insurance Agent, 156 Main st., I. O.
Gleason, John J.,	42 Linden st.,	Undertaker, 175 Dwight st.
Glenn, Robert C.,	66 Byers st.,	Bookbinder, 220 Franklin st.
Glickman, Henry,	476 Chestnut st.,	Liquor Dealer, 169½ Main st.
Godfrey, William C.,	105 Hampden st., I. O.,	Agent, Indian Orchard Co.
Goetting, August H.,	767 State st.,	Paper and Leather Dealer, 269 Bridge st.
Goldin, Joseph,	20 Hebron st.,	Agent, 4 Ferry st.
Goldstein, Benjamin,	618 Sumner ave.,	Clothing Dealer, 17 Elm st.
Goodspeed, Robert E.,	82 Bloomfield st.,	Blacksmith, Forest Park.
Goodyear, Harry D.,	4 Howard place,	Machinist, North Main st., Brightwood.
Gordon, William B.,	25 Greene st. ave.,	Foreman, Warwick ave.
Gorham, Howard H.,	36 Maple st.,	Dentist Assistant, 121 State st.
Gosselin, Joseph,	27 Ashley st.,	Cabinet Maker, 850 State st.
Gould, Frank L.,	86 Firglade ave.,	Engineer, 35 State st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Gowdy, William F.,	62 Harvard st.,	Telephone Foreman, 283 Worthington st.
Graham, George H.,	19 Monmouth st.,	Tailor, 423 Main st.
Graham, James,	88 Acushnet ave.,	Foreman, Howard st.
Greany, James E. R.,	524 Armory st.,	Clerk, 261 Main st.
Greany, Peter,	54 Everett st.,	Hackman, 54 Everett st.
Green, Clarence H.,	83 Elliott st.,	Manufacturer, 309 Main st.
Green, John F.,	475 Main st.,	Cigar Maker, 71 Gardner st.
Greene, Harry W.,	6 Salem st.,	Caretaker.
Greene, Howard M.,	901 Belmont ave.,	Clerk, 195 State st.
Greene, John A.,	4 Hampden st., I. O.,	Pressman, Worcester st., I. O.
Greenough, George W.,	52 Linden st.,	Foreman Carpenter, 58 Harrison ave.
Gregg, William T., Jr.,	30 Hawley st.,	Mason, About the city.
Grout, Frank W.,	7 Marble st.,	Mattress Maker, South st.
Grover, Harry L.,	20 Holyoke st.,	Tool Maker, 837 State st.
Guess, William J.,	590 Armory st.,	Pressman, 29 Worthington st.
Guterman, Hans W.,	36 Amherst st.,	Decorator, 129 State st.
Hadd, George H.,	66 Pynchon st.,	Barber, 25 East Court st.
Hagerty, Daniel,	122 Franklin st.,	Bricklayer, Not working.
Haile, Henry C.,	28 Edwards st.,	Retired.
Hale, Clifford E.,	127 Jefferson ave.,	Foreman, Wason ave.
Hale, Dennis B.,	9 York st.,	Clerk, 144 State st.
Hall, George A.,	24 John st.,	Bookkeeper, Oak st., Chicopee Falls.
Hall, George W.,	766 Sumner ave.,	Not employed.
Hall, Walter E.,	350 Dickinson st.,	Foreman, 57 Harrison ave.
Hall, William A.,	54 Andrew st.,	Shipping Clerk, 404 Dwight st.
Hall, William G.,	133 Cedar st.,	Junk Dealer, 129 Cedar st.
Haller, John J.,	51 Tyler st.,	Cabinet Maker, 850 State st.
Halstead, Charles E.,	1563 North st.,	Merchant, 152 Main st.
Halstead, Frank J.,	1563 North st.,	Salesman, 392 Main st.
Halstead, Leroy W.,	38 Jefferson ave.,	Superintendent, 227 Plainfield st.
Handyside, Robert,	617½ Main st.,	Bookkeeper, 26 Willow st.
Hanifin, Frank T.,	54 Plainfield st.,	Clerk, Lyman st.
Hanlon, J. William,	83 Pearl st.,	Real Estate Dealer, 310 Main st.
Hannan, Francis,	48 Stebbins st.,	Solicitor, 500 Main st.
Hannon, Hugh F.,	43 Acushnet ave.,	Manufacturer, 30 Taylor st.
Harder, F. Gordon,	76 Westford ave.,	Coal and Grain Dealer, 39 Colton st.
Harley, Leon J., Jr.,	576 State st.,	Manufacturer, East Springfield.
Harrington, Dennis W.,	220 Carew st.,	Machinist, B. & A. R. R., W. Springfield.
Harris, M. Victor,	47 Tenth st.,	Printer, 292 Main st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Hart, Walter S.,	22 Clarendon st.,	Foreman, B. & M. R. R. Shops.
Harvey, David L.,	99 St. James ave.,	Manager, 117 Hancock st.
Harvey, William E.,	366 Hancock st.,	Draughtsman, North Main st., Brightwood.
Harwood, Edward T.,	23 Hiawatha st.,	Traveling Salesman, Boston, Mass.
Haskins, William H.,	36 Maplewood ter.,	Assistant Treasurer, 407 Main st.
Hastings, Herbert C.,	26 Mapledell st.,	Draughtsman, Wason ave.
Hathaway, Alfred R.,	79 Marengo Park,	Water Registrar, 121 Bridge st.
Hawkes, Louis T.,	92 Bancroft st.,	Clerk, 195 State st.
Hawkes, Thomas C.,	76 Byers st.,	Photographer, 76 Byers st.
Hayden, John E.,	75 Essex st.,	Wine Clerk, 190 Main st.
Hayes, Horace C.,	45 Pearl st.,	Foreman, 16 Sanford st.
Hayes, Irving C.,	14 Dresden st.,	Bookkeeper, 241 Main st.
Hayes, James J.,	91 Butler st.,	Installs Meters, Foot State st.
Hayhurst, James C.,	10 Stebbins st.,	Artist, Warwick ave.
Hazelwood, Frank A., Jr.,	88 Spring st.,	Shipping Clerk, 309 Main st.
Hazen, Edward C.,	38 Berkeley st.,	Commercial Traveler, C. F. Mesick Co., New Haven.
Heck, John Henry,	44 Central st.,	Clerk, 390-396 Main st.
Heffner, Stephen J.,	37 York st.,	Designer and Cutter, 56 Harrison ave.
Hendee, George M.,	65 State st.,	Manufacturer, 837 State st.
Hendrick, Austin S.,	99 Elliott st.,	Meat Cutter, Unemployed.
Hennessey, John B.,	53 Bradford st.,	Printer, 292 Main st.
Hennessey, Martin J.,	80 Massasoit st.,	Conductor, 5 North Main st.
Hennesey, Matthew J.,	84 Everett st.,	Mechanic, 354 Birnie ave.
Henry, George F.,	69 Cass st.,	Mattress Maker, 357 Main st.
Herchovitz, Abraham,	136 Franklin st.,	Storekeeper, 445 State st.
Hersey, George L.,	43 Stebbins st.,	Furniture Dealer, 35 Worthington st.
Hickey, James W.,	36 Spring st.,	Bookkeeper, 238 Worthington st.
Hicks, Walter J.,	49 Murray Hill ave.,	Salesman, Morris Undertaking Co., Newark, N. J.
Higginbotham, Charles W.,	223 Hancock st.,	Foreman, Cor. Orleans and Quincy sts.
Hill, David W.,	87 Beaumont st.,	Stone Engraver, 535 Main st.
Hill, Herbert W.,	139 Dickinson st.,	Time Clerk, 500 Main st.
Hillman, Frederick J.,	34 Leyfred ter.,	President, 31 Elm st.
Hine, Eugene L.,	34 Florence st.,	Plater.
Hitchen, Joseph F.,	114 Rowland ave.,	Bookkeeper, Russell Falls Mill, Russell, Mass.
Hoag, David A.,	42 Sumner ave.,	Salesman, 31 Dwight st.
Hoar, Daniel,	75 Charles st.,	Merchant, 262 Chestnut st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Hoar, John F.,	442 Liberty st.,	Clerk, 54 Fort st.
Hockemeier, Herman A. R., Jr.,	643½ Main st.,	Optician, 317 Main st.
Hodgdon, Wilson R.,	56 High st.,	Teller, 464 Main st.
Hodges, George C.,	48 Grenada ter.,	Grocer, 618 Main st.
Holland, Charles E.,	78 Florence st.,	Machinist, Stockbridge st.
Holland, John W.,	57 High st.,	Electrician, 73 State st.
Hollister, Albert D.,	28 Amherst st.,	Foreman, 100 Albany st.
Holmes, Frederick M.,	52 Seventh st.,	Foreman, 54 Taylor st.
Hooker, Louis W.,	558 Plainfield st.,	Superintendent, Brightwood.
Hooker, Ralph W.,	67 Chestnut st.,	Salesman, 318 Main st.
Hopson, Harry B.,	191 High st.,	Manufacturer, 318 Main st.
Horr, Irving S.,	60 Buckingham st.,	Advertising Manager, 392 Main st.
Hoschke, Frederick A.,	112 Wilbraham road,	Manager, 389 Main st.
Hosmer, Charles H.,	47 Marble st.,	Tool Maker, Stockbridge st.
Hosmer, Edward E.,	391 Belmont ave.,	Coat, Apron and Towel Supply, 391 Belmont ave.
Hosmer, Eugene C.,	187 King st.,	Salesman, 54 Taylor st.
Houlihan, Michael,	51 Auburn st.,	Machinist, B. & M. R. R.
Howard, George E., Jr.,	165 Mill st.,	Manufacturer, Mill st.
Howard, Walter E.,	26 Besse place,	Wood Worker, 179 Dwight st.
Howes, Harry W.,	56 Bancroft st.,	Compositor, 56 Bancroft st.
Howland, Edward R.,	18 Forest Park ave.,	Insurance Agent, 274 Main st.
Hoyt, Charles L.,	139 Bay st.,	Furrier, 149 State st.
Hubbard, Charles G.,	57 Alden st.,	Paying Teller, 321-323 Main st.
Hubbard, Fred A.,	80 Florida st.,	Stock Broker, 317 Main st.
Hubbell, Frederick C.,	19 Cliftwood st.,	Manager, 261 Main st.
Hubbell, George H.,	90 Palmer ave.,	Manufacturer, 2 Park st.
Hudson, John W.,	36 Cortland st.,	Inspector, 35-39 State st.
Huettner, Henry S.,	16 Morris st.,	Baker, 568 Main st.
Hughes, William T.,	100 Union st.,	Salesman, 162 Bridge st.
Humphrey, William H.,	31 Allendale st.,	Bookkeeper, 75 Temple st.
Hunt, Edward B.,	73 Sylvan ave.,	Bookkeeper, 25 Harrison ave.
Hurwitz, Sam,	42 Plymouth st.,	Lumber Dealer, 42 Plymouth st.
Hutchins, Willie A.,	60 Hancock st.,	Cook and Waiter, 53-55 Harrison ave.
Hyde, Judson F.,	108 Alden st.,	Furnace Dealer, 143 Dwight st.
Hyde, Thomas W.,	24 Avon place,	Clerk, 500 Main st.
Hynes, Edward V.,	57 Cass st.,	Conductor, 5 Main st.
Irwin, Thomas W.,	85 Hampshire st., I. O.,	Public Accountant, 17 Worthington st.
Jack, George,	131 Hampden st., I. O.,	Superintendent, Front st., I. O.
Jamieson, George,	94 Dawes st.,	Paper Hanger, 94 Dawes st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Janes, Arthur L.,	116 Florence st.,	Traveling Salesman, Brightwood.
Janes, Thomas I.,	11 Brown st.,	Insurance Agent, 317 Main st.
Jefferson, Charles J.,	50 Jefferson ave.,	Machinist, 86 Broadway, Chicopee Falls.
Jensen, Franz G.,	199 Forest Park ave.,	Confectioner, 319 Main st.
Johnson, Allison F.,	151 Johnson st.,	Salesman, 45 Hampden st.
Johnson, Charles W.,	128 Orleans st.,	Photographer, 128 Orleans st.
Johnson, Edward C.,	173 Thompson st.,	Printer, 381 Main st.
Johnson, Edward M.,	73 Bowles st.,	Salesman, 800 State st.
Johnson, Frank M.,	21 McKnight st.,	Insurance Agent, 25 Harrison ave.
Johnson, Henry R.,	53 Fairfield st.,	Dealer in Books, 391 Main st.
Jones, James H.,	43 Colonial ave.,	Automobile Agent, Holyoke.
Jones, Lewis O.,	50 Ashley st.,	Foreman, Oak st., Chicopee Falls.
Jones, Samuel M.,	N. S. Boston road,	Farmer, N. S. Boston road.
Katz, Louis,	67 Church st.,	Hotel Proprietor, 526 Main st.
Kavanagh, Joseph P.,	108 Hampden st., I. O.,	Manager, Main st., Holyoke.
Kehoe, John,	57 Greenwich st.,	Janitor, Sacred Heart Church.
Keith, John E.,	167 Marion st.,	Storekeeper, 18 Court st.
Keith, William J.,	24 Grove st.,	Meat Cutter, 283 North Main st.
Kelley, Edward W.,	412 Walnut st.,	Mason, 22 Worthington st.
Kelliher, John J.,	51 Huntington st.,	Parcel Delivery, East Court st.
Kellogg, Fred T.,	120 Maple st.,	Manufacturer, 395 Dwight st.
Kellogg, John W.,	22 Hall st.,	Clerk, 348 Main st.
Kelly, Anthony T.,	39 Wendell ave.,	Blacksmith, 219 Dwight st.
Kemater, George H.,	245 St. James ave.,	Treasurer, 500 Main st.
Kendall, Elwin D.,	217 Oakland st.,	Retired.
Kenner, Frederick J.,	59 Tenth st.,	Meter Reader, 73 State st.
Keyes, Henry S.,	129 Essex st.,	Clerk, 65 Main st., Chicopee Falls.
Kibbe, Clifton W.,	128 Oakland st.,	Builder, 128 Oakland st.
Kilgour, James,	22 Acushnet ave.,	Plumber, 157 State st.
Kimball, Benjamin L.,	14 Washburn st.,	Furniture Dealer, 47 Main st.
Kimpton, Daniel J.,	336 Central st.,	Bookkeeper, 500 Main st.
King, Edward A.,	655 Belmont ave.,	Designer, 655 Belmont ave.
King, Raymond H.,	26 Maynard st.,	Shipping Clerk, 37 Harrison ave.
Kingston, John J.,	192 Franklin st.,	Clerk, 424-442 Main st.
Kingston, William J.,	18 Eastern ave.,	Tinsmith, 7 Bond st.
Kirby, Joseph J.,	65 Washburn st.,	Commercial Traveler, 65 Washburn st.
Kirkham, J. Stuart,	107 Maplewood ter.,	Retired.
Kirwan, William P.,	254 Carew st.,	Cigar Manufacturer, Bridge st.
Kittel, Ernest J.,	37 Catharine st.,	Watch Maker, 31 Harrison ave.
Kramer, Albin M.,	171 Boston road,	Civil Engineer, 191-211 Liberty st.
Kuenzel, Christopher W.,	12 Goodrich st.,	Jeweler, 119 State st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Kuhn, Albert,	3 Sumner ave.,	Brewer, 54 Fort st.
LaBœuf, Edward E.,	745 Carew st.,	Plumbing Contractor, 792 Liberty st.
Ladd, Benjamin W.,	67 Allen st.,	Tea and Coffee Dealer, 67 Allen st.
Ladd, Edwin G.,	67 Allen st.,	Clerk, 67 Allen st.
LaFrancis, Walter J.,	6 Geraldine ct.,	Carpenter, Sanford st.
Lane, Albert C.,	40 Westernview st.,	Traveling Salesman, American Knitting Co., N. Y. City.
Lane, Fred A.,	63 North Main st.,	Clerk, 120 Main st.
Lane, Robert E.,	55 Nelson ave.,	Automobile Salesman, 640 Main st.
Lang, George D.,	5 Oak st.,	Assistant Secretary, 500 Main st.
Lange, William,	53 Eastern ave.,	Cabinet Maker, 53 Wilbraham rd.
Langtry, Albert P.,	59 High st.,	Editor, 292 Main st.
LaRiviere, Victor H.,	178 Boston road,	Clerk, 166½ Main st., I. O.
LaValley, Frederick J.,	68 Palmer ave.,	Compositor, 29 Worthington st.
LaVally, Joseph,	57 Bliss st.,	Steam Fitter, 104-106 State st.
Lawler, John,	64 Avon place,	Monument Dealer, 29 Worthington st.
Lawler, Thomas,	121 Linden st.,	Pattern Maker, 354 Birnie ave.
Lawless, John,	52 Vinton st.,	Carpet Layer, 349-359 Main st.
Lawrence, George W.,	72 Mapledell st.,	Bookkeeper, 141 Lyman st.
Lay, William,	848 Belmont ave.,	Real Estate Dealer, 151 Main st.
Lay, William E.,	47 Girard ave.,	Florist, Bay st.
Leach, Charles D.,	N. S. Berkshire ave.,	Electrical Engineer, Main st., I.O.
Leary, Christopher,	65 Kenwood Park,	Retired.
Legein, Armand J.,	E. S. Denver st.,	Superintendent, 50 Howard st.
Leonard, Archer F.,	71 Marengo Park,	Fur Dealer, 22-24 Stockbridge st.
Leonard, Edwin F.,	348 Carew st.,	Druggist, 72 Main st.
Leonard, John F.,	161 Chestnut st.,	Steward, 161 Chestnut st.
Leshure, Willard P.,	561 North Main st.,	President, Fisk ave.
Levin, Samuel M.,	13 Morgan st.,	Merchant, 154 Main st.
Lewis, Arthur B.,	233 Forest Park ave.,	Merchant, 461 Main st.
Lewis, Charles C.,	192 Long Hill st.,	Merchant, 30-32 Lyman st.
Lewis, Dudley P.,	746 State st.,	Retired.
Lillie, Dexter P.,	34 Cornell st.,	Manufacturer, Indian Orchard.
Lillie, Lucien B.,	68 Monmouth st.,	Manufacturer, Indian Orchard.
Lindquist, Carl John,	156 College st.,	Butcher, Not employed.
Littlefield, Austin R.,	284 Walnut st.,	Civil Engineer, 17 Hampden st.
Livingston, Fred W.,	42 Alden st.,	Inspector, Stockbridge st.
Livingston, James O.,	136 College st.,	Carpenter, 136 College st.
Lockwood, Alfred L.,	115 Tyler st.,	Cutlery Dealer, 58 Harrison ave.
Lombard, Ralph E.,	76 Magnolia ter.,	Real Estate Dealer, 31 Elm st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Lonergan, John J.,	117 Jefferson ave.,	Wire Weaver, Heywood st., and Warwick ave.
Loomis, Dan A.,	727 State st.,	Automobile Dealer, 84 Dwight st.
Lorimer, John I.,	N. S. Athol st.,	Dyer, Glenwood.
Losee, George F.,	116 Berkshire st.,	Photo Engraver, 3 Post Office sq.
Lovejoy, Frank O.,	81 Berkshire st.,	Assistant Manager, Worcester st., I. O.
Loveland, J. Marshall,	55 Dawes st.,	Butter and Egg Dealer, 55 Dawes st.
Lovemoney, Louis J.,	213 Tyler st.,	Optician, 23 Harrison ave.
Ludden, William P.,	1329 North st.,	Proprietor, 204 High st., Holyoke.
Ludwig, William J.,	11 Columbia ter.,	Department Manager, 424-442 Main st.
Lumis, Fred W.,	28 Bedford road,	Building Commissioner, 48 Pynchon st.
Lyman, George M.,	34 Coleman st.,	Ice Dealer, 34 Coleman st.
Lyman, George W.,	92 Buckingham st.,	Contractor, 92 Buckingham st.
Lyman, James M.,	53 Catharine st.,	Truckman, 53 Catharine st.
Lynch, Charles E.,	Round Hill,	Merchant, 367 Main st.
Lynch, Edward E.,	45 Holyoke st.,	Foreman, 21 Clinton st.
Lynch, Lawrence E.,	124 Bond st.,	Canvasser.
Lyons, James,	562 Armory st.,	Teamster, 54 Fort st.
Lyons, Michael H.,	144 Main st., I. O.,	Merchant, 144 Main st., I. O.
Lyons, Patrick T.,	35 Brookline ave.,	Clerk, 1273 State st.
Mack, Michael,	31 Sheldon st.,	Baker, 134 Main st.
Madden, Michael J.,	276 Armory st.,	Lithographer, Warwick ave.
Magaziner, Jacob,	464 Chestnut st.,	Baker, 74 Ferry st.
Maloney, James T.,	16 Vinton st.,	Teamster, 54 Fort st.
Mannix, John T.,	148 Bond st.,	Chef, Unemployed.
Manser, Elmer E.,	285 Allen st.,	Carpenter and Builder, 285 Allen st.
Mansfield, George E., Jr.,	420 Sumner ave.,	Baker, 97 Bridge st.
Mansfield, Peter H.,	117 Essex st.,	Grocer and Marketman, 424 Dickinson st.
Maranville, George L.,	117 Lebanon st.,	Real Estate Dealer, 318 Main st.
Margerum, Edwin F.,	47 Pine st.,	Merchant, 136 Walnut st.
Marshall, John E.,	168 William st.,	Clerk, 390-396 Main st.
Martin, Walter A.,	63 Palmer ave.,	Clerk, Oak st., Chicopee Falls.
Mason, Herbert W.,	116 Florence st.,	Milk Dealer, 116 Florence st.
Mason, William H.,	132 Myrtle st., I. O.,	Chief Engineer, Worcester st., I. O.
May, Charles H.,	44 Andrew st.,	Steam Fitter, Front st., Mittineague.
Maynard, Edward W.,	855 Belmont ave.,	Merchant, 524 Worthington st.
McAuley, Frank A.,	81 Bond st.,	Electrician, 5 Main st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
McCall, Daniel F.,	150 Tenth st.,	Salesman, 361-369 Main st.
McCarthy, James J.,	148 Hancock st.,	Horseshoer, 142 Hancock st.
McCarthy, Jeremiah,	30½ Auburn st.,	Teamster, 112 Gardner st.
McCarthy, Timothy,	51 Cass st.,	Foreman, Cor. Lyman and Spring sts.
McCarthy, Patrick J.,	588 Sumner ave.,	Commercial Traveler, 23 Cliff st., N. Y.
McCulloch, Henry B.,	38 Clifton ave.,	Freight Inspector, N. Y., N. H. & H. R. R.
McDonald, John, Jr.,	344 Chestnut st.,	Merchant, 344 Chestnut st.
McGill, Harry,	S. S. Harvey st.,	Order Clerk, East Springfield.
McGlynn, David M.,	94 York st.,	Clerk, Freight Office, B. & M. R. R.
McIntire, Arthur H.,	13 Beech st.,	Watchman, Forest Park.
McIntire, Herbert W.,	49 Holyoke st.,	Horse Dealer, 61 Market st.
McKeown, Thomas R.,	34 Allen ave.,	Manager, 150 Bridge st.
McKnight, Charles H.,	79 Riverview ter.,	Real Estate Dealer, 137½ State st.
McNamara, Dennis,	39 Harvard st.,	Tailor, Cor. State and Main sts.
McNulty, Michael,	328 North Main st.,	Not employed.
Meacham, Edward A.,	19 Grenada ter.,	Insurance Agent, 318 Main st.
Merry, Alfred B.,	329 Bay st.,	Traveling Salesman, Cottalap Co., Somerville, N. J.
Merry, Carlton R.,	18 Greenacre Square,	Printer, 14 Pynchon st.
Meunier, Virginius J.,	36 Thomas st.,	Mechanical Engineer, 27 Lyman st.
Milburn, Lee,	494 Belmont ave.,	Manufacturer, 359 Main st.
Miles, Roger T.,	336 Chestnut st.,	Liquor Dealer, 137-143 Main st.
Millea, Francis J.,	329 Dickinson st.,	Metal Plater, 47 Taylor st.
Miller, August H.,	461 Walnut st.,	Machinist, 837 State st.
Miller, Henry S.,	365 Water st.,	Lineman, 182 Lyman st.
Mills, Erwin F.,	23 Leyfred ter.,	Commercial Traveler, Rockwood Chocolate Co., Boston, Mass.
Miner, Frank P.,	405 Central st.,	Polisher, Stockbridge st.
Mitchell, Fred D.,	132 Alderman st.,	Clerk, 265 Bridge st.
Moore, Burton H.,	11 Marble st.,	Printer, 29 Worthington st.
Moore, George B.,	49 Wilbraham ave.,	Plumber, 49 Wilbraham ave.
Moreau, Charles L.,	22 Franklin st.,	Foreman, B. & A. R. R.
Morgan, James H.,	28 Congress st.,	Blacksmith, B. & M. R. R.
Moriarty, James Joseph,	58 Franklin st.,	Horseshoer, 18 Liberty st.
Morrill, Fred A.,	55 State st.,	Foreman, Rowland ave.
Morris, Thomas J.,	584 State st.,	Heating and Mill Supplies, 31 Lyman st.
Morse, Ensign,	57 Denver st.,	Builder, 57 Denver st.
Moseley, E. George,	7 Marble st.,	Bookkeeper, Mechanic st.
Mossman, William M.,	26 Besse place,	Clerk, 500 Main st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Mullins, Walter H.,	69 Harvard st.,	Investment Banker, 69 Harvard st.
Munn, Charles C.,	95 Sumner ave.,	Traveling Salesman, Thompsonville, Conn.
Munn, Eugene H.,	42 Mapledell st.,	Newspaperman, 292 Main st.
Munsell, Henry T.,	23 Bristol st.,	Plumber, 95 Dwight st.
Murphy, Timothy,	67 Linden st.,	Foreman, 39 Lyman st.
Murphy, Timothy J.,	18 Lowell st.,	Merchant, 18 Lowell st.
Murphy, William H.,	100 Byers st.,	Bookkeeper, 162 Chestnut st.
Murray, Charles E.,	162 Central st.,	Insurance Agent, 162 Central st.
Murray, J. Frank,	61 Crystal ave.,	Manager Meter Dept., 73 State st.
Murray, John J.,	399 Central st.,	Stenographer, 423 Main st.
Murray, William J.,	54 Johnson st.,	Foreman, 93 Broad st.
Nash, Robert F.,	S. S. Berkshire ave.,	Clerk, Gilbert & Barker, West Springfield.
Neff, Randolph O.,	26 Winchester st.,	Photographer, 257 Main st.
Nesbitt, Samuel W.,	1657 North st.,	Foreman, 336 Birnie ave.
Newell, Harry W.,	33 Greenleaf st.,	Mechanic, 33 Greenleaf st.
Newman, J. Willis,	33 Cortland st.,	Foreman, 281 Main st.
Newton, Chester P.,	627 Chestnut st.,	Civil Engineer, 318 Main st.
Nichols, Henry F.,	21 Florence st.,	Hotel Clerk, 241 Worthington st.
Nichols, Perlin E.,	77 College st.,	Foreman, 381 Main st.
Nichols, Wesley E.,	Oak st., I. O.,	Carpenter, 12 Cass st.
Niles, Orville W.,	43 Calhoun st.,	Traveling Salesman.
Nobert, Joseph A.,	74 Tenth st.,	Corset Ironer, 401 Dwight st.
Noble, Preston A.,	56 Palmer ave.,	Engraver, 375 Dwight st.
Nolan, John L.,	109 Greenwood st.,	Contracting House Painter.
Nolan, John W.,	96 Franklin st.,	Clerk, 292 Main st.
Nooney, Howard B.,	409 Central st.,	Clerk, 811 State st.
Normandin, Eusebe R.,	22 Richelieu ct.,	Painter, Cor. Central and Ashmun sts.
Norton, William H.,	414 North Main st.,	Shipping Clerk, 390-396 Main st.
Noyes, Edward B.,	402 Central st.,	Buyer, 390-396 Main st.
Oatman, Edgar J.,	780 Chestnut st.,	Florist, 44 Dover st.
Ober, Amos T.,	18 Douglas st.,	Helper, 68 Birnie ave.
O'Connell, James F.,	84 Everett st.,	Foreman, 983 Main st.
O'Connell, Morgan D.,	74 Everett st.,	Contractor and Builder, 74 Everett st.
O'Connell, Patrick J.,	136 Congress st.,	Baseball Stitcher, 43 Lyman st.
O'Connell, William,	236 Tyler st.,	Lumber Surveyor, 850 State st.
O'Connor, Michael,	123 Greenwood st.,	Cigar Maker, 22 East Court st.
O'Connor, William H.,	22 Lowell st.,	Not employed.
O'Donnell, Bartholomew J.,	85 Cass st.,	Watchman, 345 Main st.
O'Hare, John J.,	15 Whitney place,	Machinist, 57 Willow st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
O'Neil, Joseph B.,	129 Pendleton ave.,	Electrician, 531 Main st.
Oppenheimer, Berthold A.,	14 Cherryvale st.,	Insurance Agent, 14 Fort st.
Otto, John,	38 Jefferson ave.,	Merchant, 211 North Main st.
Otto, John C.,	38 Greenleaf st.,	Printer, 196 Worthington st.
Page, Edward C.,	115 Mill st.,	Treasurer, Ft. Depot st., Chicopee.
Page, Frank H.,	116 Ingersoll Grove,	President, 60 Hampden st.
Paine, George A.,	10 Merrick ave.,	Butcher, 451-455 State st.
Palmer, Edward,	101 Northampton ave.,	Salesman, Selt & Tarrant, Chicago.
Parker, Frederick D.,	404 Liberty st.,	Salesman, 130 Lyman st.
Parker, John E.,	269 Main st., I. O.,	Merchant, 267 Main st., I. O.
Parsons, Hiram W.,	112 Florence st.,	Carpenter, 39 New st.
Patrell, Oliver L.,	390 Hancock st.,	Proprietor, 398 Hancock st.
Patrowsky, David,	25 Linden st.,	Shoemaker, Chicopee Falls.
Patten, Asa K., Jr.,	100 Pearl st.,	Retired.
Patterson, George T.,	3 Dorchester st.,	Traveling Salesman, 75 Fountain st., Providence, R. I.
Patton, William, Jr.,	80 Cornell st.,	Real Estate Dealer, 49½ Main st.
Pauli, George W.,	11 Myrtle st.,	Not employed.
Pease, Frank H.,	647½ Main st.,	Gun Maker, Stockbridge st.
Pease, Frank W.,	36 Maple st.,	Clerk, 349-359 Main st.
Pease, George R.,	66 Charles st.,	Inspector, 837 State st.
Pease, James H.,	115 Essex st.,	Electrical Engineer, Indian Orchard.
Pease, Walter S.,	33 Lafayette st.,	Manufacturer, 88 Birnie ave.
Pelkey, George Albert,	363 North Main st.,	Real Estate Dealer, 363 N. Main st.
Perkins, Arthur E.,	69 Union st.,	Traveling Salesman.
Pero, J. Herbert,	78 Berkshire st., I. O.,	Clerk, 382 Main st.
Perry, George T.,	656 Chestnut st.,	Undertaker, 15 Clinton st.
Peters, Charles W.,	166 Union st.,	Mechanic, 293 Main st.
Peterson, Guy M.,	573 State st.,	Business Manager, 292 Main st.
Pierce, Arthur F.,	332 Bay st.,	Medicine Manufacturer, 358 Bay st.
Pierce, Benjamin D.,	47 High st.,	Veterinary Surgeon, 27 Sanford st.
Pike, Harold L.,	28 Eagle st.,	Publisher, 29 Worthington st.
Pirnie, George,	112 Magnolia ter.,	Commercial Traveler, Fuller Varnish Co., Portland, Me.
Pomeroy, Edward S.,	95 Walnut st.,	Master Mechanic, Stockbridge st.
Pool, Thomas,	60 Lexington ave.,	Foreman, Warwick ave.
Porter, Alfred N.,	55 Ringgold st.,	Paper Cutter, 338 Worthington st.
Porter, Edwin T.,	891 Belmont ave.,	Commercial Traveler, 11 Sterling st., Boston, Mass.
Porter, Frank K.,	6 Lincoln st.,	Commercial Traveler, 37 Harrison ave.
Powell, Benjamin,	109 Allen st.,	Manufacturer, 109 Allen st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Powers, Edward S.,	453 Sumner ave.,	Merchant, 474 Main st.
Powers, Frank B.,	122 Pearl st.,	Manufacturer, 54 Taylor st.
Powers, Fred H.,	86 Westford ave.,	Superintendent, 138 Wilbraham ave.
Powers, Lewis J., Jr.,	302 Union st.,	Manufacturer, Wason ave.
Pratt, Austin J.,	25 Catharine st.,	Plumber, 19 Wilbraham rd.
Pratt, Edward J.,	18 Wendell ave.,	Roofer, Willow st.
Proctor, Floyd G.,	158 Pineywoods ave.,	Clerk, 357 Main st.
Pulcifer, Irving S.,	21 Blake st.,	Assistant Treasurer, 500 Main st.
Pulcifer, William P.,	49 Holyoke st.,	Retired.
Punderson, Henry F.,	21 Riverview st.,	Coal Dealer, 138 State st.
Quimby, Irving A.,	30 Pearl st.,	Crockery Dealer, 9 Hampden st.
Quinlivan, Thomas P.,	417 Chestnut st.,	Car Knocker, B. & M. R. R.
Quinn, Raymond J.,	214 Fort Pleasant ave.,	Real Estate Dealer, 310 Main st.
Quinn, Timothy,	14 Prospect st.,	Tin Roofer, 14 Prospect st.
Radner, Louis,	24 Clinton st.,	Window Cleaner, 275 Main st.
Rathburn, Ralph A.,	119 Westford ave.,	Banker, Not employed.
Ray, G. Avery,	33 Hawley st.,	Real Estate Dealer, 33 Hawley st.
Rayner, William T.,	513 Belmont ave.,	Treasurer, Church st., West Springfield.
Reardon, James W.,	33 Alfred st.,	Foreman, Brightwood.
Reed, John C.,	734 State st.,	Timekeeper, 499 Main st.
Reilley, James Louis,	76 Marion st.,	Foreman, 121 Bridge st.
Remington, Harold K.,	146 Massachusetts ave.,	Insurance Agent, 374 Main st.
Remington, Philip H.,	198 Florida st.,	Charcoal Business, Liberty st.
Remkus, Edwin G.,	27 Westernview st.,	Insurance Agent, 168 Bridge st.
Rice, Clifford F.,	562 North Main st.,	Superintendent, Wason ave.
Rice, Clifford M.,	146 Bowles st.,	Tinsmith, 331 Dwight st.
Rice, George W.,	39 Norfolk st.,	Real Estate Dealer, 475 Main st.
Rice, John M.,	228 Pine st.,	Bookkeeper, 48 Hampden st.
Rice, Leslie E.,	207 Pine st.,	Tool Maker, Cross st.
Rich, Henry F.,	327 State st.,	Salesman, 538 Main st.
Rich, Howard W.,	68 Alderman st.,	Milkman, 114 Oakland st.
Richards, Fred J.,	417 Belmont ave.,	Cotton Waste Dealer, South Main st.
Richardson, Delos A.,	182 Maple st.,	Traveling Salesman, Dr. Leshure's Vet. Remedies.
Richmond, Edward A.,	705 Belmont ave.,	Druggist, 643 Belmont ave.
Richmond, Isaac,	40 Allendale st.,	Wholesale Grocer, 222 Chestnut st.
Riga, Joseph G.,	28 Leyfred ter.,	Importer, 28 Leyfred ter.
Ringold, Isaac,	100 Greenwood st.,	Commercial Traveler, 100 Greenwood st.
Ripley, Elon V. N.,	64 Church st.,	Traveling Salesman, 64 Church st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION
Roberts, Clinton L.,	257 Dickinson st.,	Grocer, 2 Wilmont st.
Roberts, George A.,	90 Andrew st.,	Gold Beater, 104 Andrew st.
Roberts, John W.,	33 Kenwood Park,	Cashier, 29 Worthington st.
Roberts, Samuel C.,	264 Main st.,	Music Teacher, 264 Main st.
Robinson, Louis,	26 Grosvenor st.,	Shoe Dealer, 130 Main st.
Robinson, William A. H.,	44 Byers st.,	Optician, 331 Main st.
Robson, Everett G.,	39 Brookline ave.,	Foreman, Cross st.
Robson, Harry C.,	96 Byers st.,	Traveling Salesman, Beacon Falls Rubber Shoe Co.
Roche, William M.,	28 Pleasant st.,	Clerk, 500 Main st.
Rogers, Arthur H.,	22 Temple st.,	Manufacturer, 293 Main st.
Rogers, William A.,	137 Essex st.,	Laborer, 837 State st.
Rollins, Harvey E.,	12 Osgood st.,	Clerk, 146 Main st.
Rolzhauser, George F.,	75 Elm st.,	Machinist, Stockbridge st.
Rood, Fred K.,	700 Chestnut st.,	Merchant, 144 Main st.
Root, Cassius D.,	323 Central st.,	Salesman, 323 Central st.
Rosenburg, Frank E.,	11 Trenton st.,	Printer, 82-86 Worthington st.
Ross, Alton A.,	78 College st.,	Box Maker, 225 Liberty st.
Ross, Harry L.,	44 Bristol st.,	Inspector, Stockbridge st.
Rush, William,	575 Berkshire ave.,	Real Estate Dealer, 575 Berkshire ave.
Russell, Charles P.,	92 Alden st.,	Manufacturer, 47-49 Taylor st.
Ryan, Charles V.,	664 Chestnut st.,	Druggist, 161 Main st.
Ryan, James M.,	353 Armory st.,	Manager, 170 Bridge st.
Rynn, Frank J.,	90 Amherst st.,	Telegraph Operator, 283 Main st.
Sadler, William L.,	48 Magnolia ter.,	Druggist, 530 Main st.
Samble, Nicholas T.,	56 Huntington st.,	Foreman, 381 Main st.
Samble, William Edward, Jr.,	5 Logan st.,	Linotype Operator, 381 Main st.
Samble, William Edward, Sr.,	5 Logan st.,	Linotype Operator, 381 Main st.
Sampson, Frederick H.,	61 Sargeant st.,	Not employed.
Sanderson, William E.,	80 Hyde ave.,	Purchasing Agent, Wason ave.
Sapiro, Max J.,	534 Chestnut st.,	Junk Dealer, 120 Ferry st.
Sargeant, William H.,	169 Forest Park ave.,	Vice-President, 500 Main st.
Savage, Walter A.,	630 Sumner ave.,	Manager, 412 Main st.
Sawtell, J. Otis,	162 Westminster st.,	Merchant, 478 Main st.
Schelb, Justus A.,	346 Liberty st.,	Chef, 215 Worthington st.
Scheuing, Louis C.,	320 Union st.,	Superintendent, Cor. Orleans and Quincy sts.
Schmelzinger, W. Albert J.,	86 Walnut st.,	Real Estate Broker, 83 Walnut st.
Schock, Henry B.,	34 Continental st.,	Machine Operator, Bijou Theatre.
Schofield, Harry,	512 Chestnut st.,	Foreman, Cor. Taylor and Dwight sts.
Schrader, William F.,	28 Rutledge ave.,	Elevators and Supplies, 19 Taylor st.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Schultz, August,	148 King st.,	Lithographer, 140 Wilbraham ave.
Scott, Edward R.,	349 Walnut st.,	Foreman, 104 Alden st.
Scott, Lorenzo,	366 Sumner ave.,	Assistant Manager, 73 State st.
Searles, Fred W.,	84 Andrew st.,	Traveling Salesman, 25 Harrison ave.
Sears, Joseph H.,	97 Essex st.,	Paper Hanger, 97 Essex st.
Severy, William G.,	1516 North st.,	Bookkeeper, Fisk ave.
Sexton, Charles S.,	26 Westford ave.,	Druggist, 477 State st.
Sexton, Frank A.,	72 Temple st.,	Bookkeeper, 58 Harrison ave.
Shattuck, Louis E.,	74 College st.,	Clerk, 86 Court st.
Shaw, Harry C.,	269 Bay st.,	Purchasing Agent, 837 State st.
Shea, Dennis J.,	261 Chestnut st.,	Clerk, 5-11 Market st.
Shea, Jeremiah L.,	14 Columbia ter.,	Contractor, 14 Columbia ter.
Shea, John B.,	82 Alderman st.,	Grocer, Cor. Oakland and Dickinson sts.
Shea, Patrick J.,	49 Alden st.,	Brick Mason, Cor. Worthington and Water sts.
Sheckler, John A.,	760 Chestnut st.,	Horse Dealer, 10 Franklin st.
Sheehan, Patrick,	401 Chestnut st.,	Switchman, B. & M. R. R.
Sheehan, Thomas E.,	45 Linden st.,	Manager, 332 Main st.
Sheldon, William O.,	129 Westminster st.,	Provision Dealer, 132 State st.
Shepardson, Perry L.,	27 Calhoun st.,	Broker, 27 Calhoun st.
Short, Jonathan,	26 Eagle st.,	Contractor, 26 Eagle st.
Shuart, William H.,	27 Mulberry st.,	President, Old Bridge st., West Springfield.
Shumway, Frederick A.,	48 Johnson st.,	Commercial Traveler, 41 Thompkins st., N. Y. City.
Simmons, Frederick,	80 Cornell st.,	Retired.
Simons, John,	56 Main st.,	Cigar Maker, 275 Main st.
Simons, John F.,	154 Alden st.,	Superintendent, 287 Hickory st.
Simpson, William A.,	159 State st.,	Painter, 8-10 Harrison ave.
Sinclair, Frederick O.,	14 Orleans st.,	Not employed.
Sleigh, William B.,	64 Westford ave.,	Manager, 48 Harrison ave.
Smart, Harold J.,	127 Marion st.,	Clerk, Union Depot.
Smart, Sidney J.,	645 Belmont ave.,	Insurance Clerk, 500 Main st.
Smith, Alfred B.,	21 Pearl st.,	Flour Broker, 21 Pearl st.
Smith, Byron,	36 Maple st.,	Foreman, Stockbridge st.
Smith, Clarence I.,	S. S. Allen st.,	Farmer, S. S. Allen st.
Smith, Elmer H.,	82 Boylston st.,	Master and Pilot, Connecticut River.
Smith, Frederick G.,	24 Clifford st.,	Superintendent, 29 Worthington st.
Smith, Frederick G.,	21 Pearl st.,	Flour Broker, 21 Pearl st.
Smith, Howard I.,	140 Berkshire st.,	Clerk, 65 Main st., Chicopee Falls.
Smith, Samuel E.,	216 Boston road,	Real Estate Dealer, 216 Boston rd.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Smith, Wilfred A.,	60 Pearl st.,	Paymaster, Cor. Bridge and Chestnut sts.
Spanier, William S.,	53 Osgood st.,	Manufacturer, 10 Boylston st.
Spare, Robert H.,	N. S. Long Hill st.,	Confectioner, 415 Main st.
Spear, Edwin C.,	130 Westminster st.,	Wire Manufacturer, Heywood st. and Warwick ave.
Spear, Raymond L.,	24 Besse place,	Clerk, 329 Main st.
Spicer, Ernest T.,	10 Chestnut st.,	Insurance Agent, 25 Harrison ave.
Stebbins, Frank H.,	58 Hancock st.,	Carpenter, 39 New st.
Steele, John,	24 Foster st.,	Salesman, 349-359 Main st.
Steele, Percy D.,	32 Chase ave.,	Florist, 137 State st.
Stevens, Frederick C.,	28 Roseland st.,	Bottler, 121-123 Water st.
Stewart, Albert E.,	278 Pine st.,	Floor Walker, 345 Main st.
Stiles, Edward I.,	31 Allendale st.,	Bookkeeper, 457 Worthington st.
Stimson, Charles A.,	18 Margaret st.,	Painter, Maple st.
Stocker, Arthur B.,	782 Belmont ave.,	City Editor, 292 Main st.
Stromwall, Edgar A.,	62 Broad st.,	Machinist, 837 State st.
Stone, Bradford,	192 Pearl st.,	Mill-man, Otis Co., Three Rivers.
Strout, Fred P.,	565 Union st.,	Bookkeeper, 348 Main st.
Strout, Walter H.,	95 Northampton ave.,	Wall Paper Business, 164 Bridge st.
Sturgis, Frank W.,	9 Temple st.,	Purchasing Agent, Ludlow Mfg. Co., Ludlow, Mass.
Sullivan, James A.,	57 Everett st.,	Traveling Salesman, Hartford, Conn.
Sullivan, James E.,	55 Maplewood ter.,	Editor, 82-86 Worthington st.
Sullivan, John F.,	28 Roseland st.,	Sporting Editor, 292 Main st.
Sunter, Alexander E.,	77 Alexander st.,	Druggist, Cor. Carew and Chestnut sts.
Sutton, Edward O.,	12 Ingraham ave.,	Assistant Manufacturer, 53 Wilbraham rd.
Swan, Frank N.,	70 Bellevue ave.,	Manufacturer, 20 Hanover st.
Taft, Edward H.,	125 Wilbraham rd.,	Ice Dealer, Hickory st.
Tait, George G.,	37 Vinton st.,	Merchant, 37 Vinton st.
Tapley, William W.,	266 Union st.,	Manufacturer, Cor. Willow and Cross sts.
Tarbell, Fred E.,	67 Acushnet ave.,	Machinist, Stockbridge st.
Taylor, Crosland, 2d,	174 King st.,	Overseer, 196 Worthington st.
Taylor, Fred B.,	397 State st.,	Manufacturer, 19 East Court st.
Taylor, Henry C.,	21 Massachusetts ave.,	Christian Science Healer, Besse pl.
Tehan, James H.,	108 Johnson st.,	Clerk, 367 Main st.
Thacker, George,	74 Alexander st.,	Collector, 357 Main st.
Thacker, William R.,	42 Chase ave.,	Paper Dealer, 269 Bridge st.
Thayer, Harrison C.,	14 Spruce st.,	Clerk, 5 Randall ave.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Thayer, Royal R.,	111 Cambridge st.,	Foreman, Front st., Mittineague.
Thomas, Fred G.,	22 Dunmoreland ave.,	Paper Stock Dealer, 181 Dwight st.
Thompson, Clayton N.,	104 North Main st.,	Mechanical Engineer, 65 Main st., Chicopee Falls.
Thompson, Egbert H.,	98 Amherst st.,	Woodworker, 368 Liberty st.
Thompson, John H.,	4 Hampden st.,	Draughtsman, 336 Birnie ave.
Thurston, George E.,	48 Abbe ave.,	Machinist, 53 Wilbraham ave.
Tillinghast, William C.,	7 Hawley st.,	Grocer, 173 Hancock st.
Toomey, James F.,	20 Cleveland st.,	Lithographer, Warwick ave.
Toomey, Thomas D.,	89 Linden st.,	Inspector, 65 Main st., Chicopee Falls.
Trask, George H.,	824 Carew st.,	Machinist, 837 State st.
Trudeau, Noe J.,	216 Main st.,	Collector, 538 Main st.
Truesdell, William E.,	74 Kenwood Park,	Merchant, 577 Main st.
Tucker, Andrew J.,	539 State st.,	President and Superintendent, Heywood st. and Warwick ave.
Tucker, William E.,	24 Douglas st.,	Foreman, 156 Wason ave.
Tyler, John K.,	15 Myrtle st.,	Bookkeeper, 53 Wilbraham rd.
Underhill, Arthur W.,	83 Ingersoll Grove,	Manufacturer, 46 Harrison ave.
Underwood, Roy E.,	241 Wilbraham rd.,	Paymaster, foot Howard st.
Underwood, William G.,	623 Main st.,	Clerk, 216 Worthington st.
Vaille, William M.,	132 Grover st.,	Merchant, 795 Liberty st.
Van Norman, George H.,	470 Sumner ave.,	Photographer, 470 Sumner ave.
Vaughan, Ellwood B.,	28 Whittier ave.,	Concrete Contractor, So. Main st.
Viets, Samuel D.,	27 Spruceland ave.,	Merchant, 307 Main st.
Vining, Henry D.,	52 High st.,	Traveling Salesman, Esterbrook Co., Boston.
Waldron, Henry S.,	23 Westernview st.,	Insurance Agent, 29 Worthington st.
Walker, Charles O.,	25 Brown st.,	Accountant, 15 Elm st.
Walker, Fred E.,	48 Catharine st.,	Boarding House Keeper, 48 Catharine st.
Walls, Charles H.,	63 Morris st.,	Builder, 89 Morris st.
Walsh, Frank T.,	54 Merwin st.,	Bookkeeper, 271 Bridge st.
Walsh, John J.,	93 Bond st.,	Brick Layer.
Walsh, Thomas P.,	665 Belmont ave.,	Real Estate and Insurance, 318 Main st.
Walters, Arthur E.,	41 Keith st.,	Grocer, 365 Belmont ave.
Walters, George F.,	305 Bay st.,	Traveling Salesman, Colonial Paint Works, Brooklyn, N. Y.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Walters, William H.,	305 Bay st.,	Insurance Agent, Hartford.
Ward, Eugene B.,	49 Pearl st.,	Manager, 382 Main st.
Ward, William E.,	33 Edwards st.,	Chauffeur, 642 State st.
Warner, Dwight H.,	279 Orange st.,	Carpenter and Builder, 279 Orange st.
Warner, Stephen O.,	317 Orange st.,	Carpenter, Longmeadow.
Warnock, John,	112 Alderman st.,	Bookkeeper, Cor. Heywood st. and Warwick ave.
Warren, Robert F.,	20 Myrtle ter.,	Wholesale Flour Dealer, 33 Hampden st.
Webb, George S.,	754 Chestnut st.,	Electrician, 5 Main st.
Weeks, William I.,	304 Central st.,	Manager, 138 State st.
Wernhoff, Svante,	45 Hayden st.,	Cabinet Maker, Wason ave.
Wesson, Frank H.,	146 Long Hill st.,	Manufacturer, Stockbridge st.
Wesson, Harold,	220 Maple st.,	Assistant Treasurer, Stockbridge st.
West, Louis W.,	507 Dickinson st.,	Machinist, Stockbridge st.
Weymouth, John G.,	72 Bloomfield st.,	Printer, Cor. Dwight and Hillman sts.
Wharfield, W. Fayette,	40 Church st.,	Bookkeeper, Front st., Mittineague.
Wheeler, Harold W.,	228 Oakland st.,	Foreman, 43 Cross st.
Williams, Edward C.,	42 Alderman st.,	Mantel and Tile Dealer, 326 Dwight st.
Whipple, Julius H.,	48 Pearl st.,	Broker, 31 Elm st.
Whitbeck, Arthur A.,	759 Belmont ave.,	Printer, 29 Worthington st.
Whitcomb, Frank D.,	15 Mulberry st.,	Manufacturer, 258 Main st.
Whitcomb, Henry L.,	15 Mulberry st.,	Cigar Manufacturer, 258 Main st.
White, Charles T.,	697 Belmont ave.,	Civil Engineer, 17 Hampden st.
White, George E.,	58 Cortland st.,	Electrician, 837 State st.
White, Luke B.,	73 Beaumont st.,	Traveling Salesman, 184 State st., Boston, Mass.
White, Myron J.,	7 Loring st.,	Machinist, Stockbridge st.
White, Samuel A.,	136 Sharon st.,	Machinist, B. & A. R. R. Shops, West Springfield.
Whitney, Charles B.,	22 Churchill st.,	Treasurer, 43 Lyman st.
Widlansky, Simon,	1082 North st.,	Real Estate Dealer, 1082 North st.
Wight, David E.,	69 Andrew st.,	Bookkeeper, 852 State st.
Wight, Ralph W.,	87 Hampden st.,	Treasurer, Pine st., I. O.
Wilder, George T.,	130 Carew st.,	Not employed.
Wilkinson, Edward H.,	136 Mill st.,	Blanket Manufacturer, Holyoke, Mass.
Willard, Walter H.,	1563 North st.,	Foreman, 214 Birnie ave.
Williams, John H. G.,	25 Amherst st.,	Insurance Agent, 25 Harrison ave.

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Williams, Nathan H.,	25 Amherst st.,	Insurance Agent, 25 Harrison ave.
Williams, Philip A., Jr.,	75 Avon place,	Manager, 88 Birnie ave.
Williamson, Peter,	108 Hampden st.,	Pattern Maker, Pine st., I. O.
Wilson, Albert W.,	28 Brown st.,	Storekeeper, 356 Main st.
Winchester, Ezra H.,	10 Dorchester st.,	Pattern Maker, 315 Bridge st.
Wing, George H.,	42 Berkeley st.,	Real Estate Agent, 68 Bridge st.
Wing, Leon M.,	24 Hawthorne st.,	Sign Writer, 24 Hawthorne st.
Winter, Arthur G.,	24 Wilcox st.,	Compositor, 53 Hillman st.
Winters, Lawrence,	288 Armory st.,	Salesman, 435 Dwight st.
Wood, Clifford L.,	33 Margaret st.,	Light Trimmer, foot State st.
Wood, Edward W.,	461 Central st.,	Clerk, 29 Worthington st.
Wood, Fred L.,	263 Bay st.,	Purchasing Agent, Cypress st.
Wood, Lorrin S.,	68 Temple st.,	Contractor, 12-14 Stockbridge st.
Wood, Walter G.,	34 Berkeley st.,	Draughtsman, Stockbridge st.
Woods, Charles H.,	59 High st.,	Clerk, American Writing Paper Co., Holyoke, Mass.
Woods, Harold H.,	298 Union st.,	Jeweler, 447 Main st.
Woodward, Frank A.,	60 Orleans st.,	Paper Hanger, 814 State st.
Woodward, Percy E.,	327 State st.,	Lunch Business, 489 Main st.
Worden, Byron W.,	35 Andrew st.,	Toy Colorer, Cross st.
Workheiser, Frank B.,	16 Howard st.,	Managing Caterer, 415 Main st.
Worthington, Albert E.,	229 North Main st.,	Assistant Superintendent, Main st., Holyoke.
Wright, Charles A.,	45 Bay st.,	Grocer, State cor. Walnut st.
Wright, Charles A. L.,	28 McKnight st.,	Civil Engineer, 121 Bridge st.
Wright, Frederick W.,	115 Wilbraham rd.,	Salesman, 162½ Chestnut st.
Wright, Harold C.,	86 Woodside ter.,	Foreman, Appleton st., Holyoke.
Wright, Harry A.,	95 Ingersoll Grove,	Farmer, Williamsburg.
Wright, Harry R.,	319 State st.,	Shoe Store, 162½ Chestnut st.
Wright, Henry S.,	18 Donald st.,	Machinist, 65 Main st., Chicopee Falls.
Wright, James F.,	47 Calhoun st.,	Compositor, 381 Main st.
Wright, William A.,	431 Main st.,	Automobile Inspector, 53 Wilbraham ave.
Wuterich, George W.,	34 Parkwood st.,	Manager, 364 Main st.
Wyckoff, Richard T.,	145 Harvard st.,	President, 29 Worthington st.
Yearly, Henry W.,	16 Revere st.,	Foreman, Stewart & Co., Boston, Mass.
Yerrall, George R.,	88 Maplewood ter.,	Treasurer, Granite Building, Main st.
Yerrall, George R., Jr.,	88 Maplewood ter.,	Real Estate Dealer, 334 Main st.
Young, Ernest F.,	53 Jefferson ave.,	Civil Engineer, Bridge st. 211

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NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Young, Eugene,	68 Euclid ave.,	Engraver, 68 Euclid ave.
Zeo, Nicola,	170 Franklin st.,	Fruit Dealer, 121 Lyman st.
Zimmerman, Morris Aubrum,	41 Allendale st.,	Real Estate Dealer, 318 Main st.

CITY OF SPRINGFIELD, April 25, 1913.

The foregoing is a list of jurors prepared for the City of Springfield under the provisions of law applicable thereto.

O. K. MERRILL,
W. W. BARTLETT,
F. W. BRENNAN,
E. A. NEWELL,
Registrars of Voters.

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REPORT OF THE

COMMITTEE ON CITY PROPERTY

SPRINGFIELD, MASS., January 1, 1913.

To the City Council of the City of Springfield.

GENTLEMEN:—The Committee on City Property respectfully submits the following report:—

MUNICIPAL GROUP.

To this Committee has been assigned the care and control of the Administration Building, the Auditorium, and the Campanile, and a superintendent has been elected to care for the buildings and grounds.

NEW BUILDINGS.

The plans of Kirkham and Parlett for the High School of Commerce were selected, and work has already been commenced by the general contractors.

Contracts have been awarded for the construction of an addition to the Buckingham School by the architect, B. Hammett Seabury, and the Committee. The work of constructing this building will be begun as soon as possible.

A new Hooker School building is to be located on Greenwood and Franklin streets. Plans have been drawn by the S. M. Green Company, and the work of construction will be begun as soon as possible after the land for the building has been fully acquired.

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ALTERATIONS AND EXTRAORDINARY REPAIRS.

Four additional rooms for use as class rooms have been finished and furnished on the third floor of the Chestnut Street School.

Corridors have been altered and stairways changed at the Jefferson Avenue School to make room for two class rooms, which have been finished and furnished.

Alterations have been made in one half of the house at 374 Central Street, upper and lower tenements, to fit it for school purposes.

Changes and alterations have been made in a basement room at the Armory Street School, to fit it for use by manual training classes.

At the Forest Park School a basement room has been fitted up for drawing classes, and heating and plumbing installed in it.

A portion of the corridor at the Homer Street School has been finished and furnished for use as a class room.

Slate blackboards have been placed in the East Union Street, Tapley, State Street, Barrows, and Central Street schools.

At Howard Street School, sanitaries have been installed.

Electric lights have been installed in Barrows and Tapley schools. New lights have also been placed in Central High, Technical High, and Indian Orchard Myrtle Street schools.

Interior telephones were installed at the Central High School and the Indian Orchard Myrtle Street School.

At the Forest Park School lockers for the manual training classes have been made and installed.

CONDITION OF BUILDINGS.

The school buildings are in excellent condition and the work of the janitors has been satisfactory.

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EMERY STREET SCHOOL WORKSHOP.

A commodious workshop and storehouse planned by Bruno Wozny has been constructed on Emery and Boylston streets for the use of the School Department, the Schoolhouse Agent, and veteran firemen. This building became necessary on account of the removal of School Department Headquarters from the wooden structure on Vernon Street.

MILITIA RIFLE RANGE.

Owing to the danger to dwelling houses in the rear of targets, and by the advice of the State Inspector of Rifle Practice, it became necessary to place an embankment in the rear of the targets, costing approximately $748.00.

PORTABLE SCHOOLHOUSES.

By the recommendation of the School Committee the City Property Committee are to purchase four portable schoolhouses to be located one each at Brightwood, Strickland, Homer Street, and Indian Orchard Myrtle Street schools.

PYNCHON STREET BUILDING.

Plans have been drawn by Bruno Wozny for alterations to this building to fit it for the use of the Vocational School, and work on it will be begun at an early date.

An inventory of city property in possession of the City, November 30, 1913, is appended hereto:—

BIRNIE AVENUE EXTENSION.

Land,..... $8,950 00

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BOARD OF HEALTH.

Dumping grounds at West street,	$19,000 00	
Equipment of laboratory for milk inspection,	1,200 00	
Hospital for contagious diseases, land and equipment, State street,	47,000 00	
Disinfectants,	68 00	
Office supplies,	125 00	
Medical inspection of schools, stationery,	70 00	
Medical inspection of schools, scales,	136 00	
Swabs, sputum and typhoid fever outfits,	50 00	
		$67,649 00

FIRE DEPARTMENT.	Land.	Buildings.	Equipment.	Total.
Armory Street	$1,200 00	$16,000 00	$10,036 00	$27,236 00
Boston Road		200 00	300 00	500 00
Chestnut Street	10,000 00	14,500 00	12,400 00	36,900 00
Court Street	35,000 00	101,500 00	46,600 00	183,100 00
Hooker Street	3,900 00	30,000 00	18,500 00	52,400 00
Indian Orchard	1,200 00	16,000 00	11,000 00	28,200 00
Margaret Street	2,000 00	25,500 00	7,850 00	35,350 00
Mill Street	2,000 00	16,500 00	14,500 00	33,000 00
Mill River Lane	300 00	2,000 00	1,300 00	3,600 00
North Street	4,000 00	58,000 00	15,200 00	77,200 00
Oakland Street	2,000 00	11,000 00	13,000 00	26,000 00
Pine Street	2,500 00	35,000 00	8,000 00	45,500 00
Plainfield Street	1,200 00	10,500 00	5,814 00	17,514 00
Walnut Street	3,500 00	17,500 00	21,000 00	42,000 00
Winchester Square	7,000 00	18,000 00	21,700 00	46,700 00
Fire Alarm Service			116,600 00	116,600 00
	$75,800 00	$372,200 00	$323,800 00	$771,800 00

FORESTRY DEPARTMENT.

Forestry tools on hand,	$1,602 41	
Machinery and tools for insect work,	2,090 62	
Office furniture at Forest Park,	75 00	
Wall case in Water Department building,	22 50	
Nursery stock at foot of Magnolia terrace,	300 00	
		$4,090 53

MISCELLANEOUS.

Militia Rifle Range, land,	$8,750 00	
Militia Rifle Range, buildings and targets,	13,404 00	
		$22,154 00

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Amount brought forward,.....		$22,154 00	
Naval battalion,.....		100 00	
Bath houses, North End and Watershops,...		200 00	
Burial lot, Peabody cemetery,.....		50 00	
Precinct railings and ballot counters, ...		1,375 00	
Ballot boxes,.....		1,050 00	
Type, cases, etc., in possession of city printer,		1,250 00	
			$26,179 00

MUNICIPAL GROUP—COURT STREET.

Land, Court and Pynchon streets, site of old City Hall, and Police and Fire Stations, taken for site of new Municipal buildings,.....		$149,000 00	
Expended for new Municipal Group:—			
Land,.....	$170,000 00		
Buildings to date,.....	1,480,216 02		
		1,650,216 02	
			$1,799,216 02

NORTH STREET EXTENSION.

Land and buildings,.....			$185,914 00

PAUPER DEPARTMENT.

Land—City farm, almshouse and hospital,..		$75,000 00	
Almshouse buildings and permanent fixtures,		75,480 00	
Almshouse:—			
Furniture, fixtures, and farm tools,.....	$7,917 45		
Provisions and supplies,....	4,989 36		
Horses, cows and other live stock,.....	2,842 00		
		15,748 81	
Wayfarers' Lodge:—			
Fixtures,.....	$1,024 75		
Supplies,.....	23 00		
Wood,.....	1,009 95		
		2,057 70	
Office furniture and fixtures,.....		843 45	
			$169,129 96

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POLICE DEPARTMENT.

Court street property,		$20,000 00
Court street building,		116,000 00
Indian Orchard property and building,		4,000 00
Police signal system,		12,000 00
Furniture, equipment, etc:—		
Commissioners' office,	$150 00	
Chief's office,	233 50	
Clerk's office,	1,403 00	
Bertillon room,	873 50	
Inspectors' room,	453 00	
Chief Inspector's room,	139 50	
Deputy Chief's room,	189 50	
Captains' room,	80 00	
Signal room,	48 50	
General office,	71 50	
Lieutenants' room,	61 00	
Emergency room,	60 00	
Matrons' room,	121 00	
Men's detention rooms,	38 00	
Women's detention rooms,	58 00	
Women's lockup,	37 00	
Men's lockup,	8 00	
Court room,	520 00	
Judge's room,	21 50	
Clerk of court,	20 00	
Prosecuting Attorney's room,	29 00	
Juvenile court room,	37 00	
Sergeants' room,	75 00	
Locker room,	1,244 00	
Vice Squad room,	89 00	
Assembly room,	89 00	
Record room,	96 00	
Revolver range,	728 00	
Equipment,	4,248 75	
Storeroom,	137 00	
		$152,000.00
Amounts carried forward,	$11,359.25	

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Amounts brought forward,	$11,359.25	$152,000.00	
Janitors' supplies,	169 00		
Garage,	9,491 50		
Corridors, etc.,	647 00		
Bicycle room,	252 50		
Station No. 2, Indian Orchard,	591 00		
		22,510 25	
			$174,510 25

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SCHOOL DEPARTMENT.	Brick or Wood.	Stories.	Land.	Buildings.	Furniture.	TOTAL.
Acushnet Avenue	B	2	$16,000 00	$45,000 00	$2,400 00	$63,400 00
Alden Street	B	2	4,500 00	14,000 00	306 00	18,806 00
Armory Street	B	2	8,500 00	145,300 00	2,633 26	156,433 26
Barrows	B	3	9,500 00	39,000 00	789 13	49,289 13
Boston Road	W	2	1,500 00	6,900 00	1,100 00	9,500 00
Brightwood	B	2	6,500 00	34,300 00	1,480 00	42,780 00
Buckingham	B	2	30,000 00	48,000 00	2,351 00	80,351 00
Carew Street	B	2	18,000 00	45,000 00	946 00	63,946 00
*Carlisle	B	2	3,000 00	200 00		3,200 00
Central Street	B	3	12,500 00	74,300 00	1,708 15	88,508 15
Charles Street	B	2	4,000 00	14,000 00	248 00	18,248 00
Chestnut Street	B	2	41,000 00	244,000 00	6,273 78	291,273 78
Dry Bridge	W	1	1,000 00	1,200 00	125 00	2,325 00
Eastern Avenue	B	2	4,500 00	30,000 00	1,074 00	35,574 00
East Union Street	B	2	4,000 00	23,000 00	1,235 00	28,235 00
Five Mile Pond	B	2	200 00	2,000 00	45 00	2,245 00
Forest Park	B	2	30,000 00	85,000 00	2,400 00	117,400 00
Glenwood	B	2	2,500 00	16,000 00	747 31	19,247 31
High (Central)	B	3	115,200 00	350,000 00	15,000 00	480,200 00
High School of Commerce			174,200 00			174,200 00
High (Technical)	B	3	33,400 00	280,000 00	18,601 14	332,001 14
Homer Street	B	2	12,000 00	36,000 00	1,737 00	49,737 00
Hooker	B	3	148,600 00	60,000 00	2,315 00	210,915 00
Howard Street	B	2	38,600 00	46,000 00	2,825 00	87,425 00
Indian Orchard Grammar	B	3	6,500 00	65,000 00	1,423 00	72,923 00
Indian Orchard Primary	W	2	3,000 00	12,000 00	720 00	15,720 00
Jefferson Avenue	B	2	7,500 00	40,000 00	1,000 00	48,500 00
Kensington Avenue	B	2	10,500 00	98,000 00	3,152 75	111,652 75
Lincoln	B	2	24,000 00	87,700 00	4,272 60	115,972 60
Open Air	W	1		700 00	125 00	825 00
†Pynchon Street	B	2	53,200 00	38,000 00		91,200 00
School Street	B	2	18,500 00	18,000 00	600 00	37,100 00
Sixteen Acres	B	2	500 00	2,000 00	42 00	2,542 00
State Street	B	3	51,700 00	78,000 00	3,025 00	132,725 00
Strickland	B	2	5,000 00	20,000 00	613 00	25,613 00
Sumner Avenue	B	2	28,600 00	58,100 00	2,975 74	89,675 74
Tapley	B	2	22,000 00	70,000 00	2,469 91	94,469 91
Vocational					260 00	260 00
*Wachogue	W	1	200 00	800 00	35 00	1,035 00
White Street	B	2	14,000 00	49,500 00	2,066 32	65,566 32
William Street	B	2	14,000 00	58,000 00	2,200 00	74,200 00
Worthington Street	B	3	12,000 00	45,000 00	848 00	57,848 00
York Street			2,000 00			2,000 00
Emery Street, Storehouse	B	2	5,400 00	22,400 00	100 00	27,900 00
Vernon Street, Old Office	W	2	19,800 00	3,000 00		22,800 00
			$1,017,600 00	$2,405,900 00	$92,218 09	$3,515,718 09

Value of books, supplies and apparatus	$120,140 48
Kindergarten equipment and supplies	3,648 42
Technical High School equipment and materials	33,613 33
Cooking School equipment and material	3,570 22
High School of Commerce equipment and supplies	7,350 48
Vocational School equipment and supplies	11,728 43
Tools and furniture in hands of Schoolhouse Agent	948 50
Janitors' supplies, Schoolhouse Agent	385 81
Fuel on hand	13,200 00
	$3,710,303 71

*Unused.
†Used by city for Municipal Building, Jan. 23, 1905, to November, 1913.

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DEPARTMENT OF STREETS AND ENGINEERING.

LANDS.

City yard, Summer street,	$76,700 00	
South end yard, Pecousic avenue,	8,500 00	
Ashes and garbage station, State street,	12,000 00	
City yard, Logan street,	10,800 00	
Gravel bank, Five Mile pond,	100 00	
Gravel bank, Island pond,	350 00	
Gravel bank, Boston road,	75 00	
Trap rock quarry, Westfield,	250 00	
		$108,775 00

BUILDINGS AND STRUCTURES.

Summer street buildings,	$19,000 00	
South end barn, Pecousic avenue,	50 00	
South end incinerator, Pecousic avenue,	2,500 00	
Street lighting, storehouse and sheds at Pecousic avenue,	200 00	
Roller house and shed, Pecousic avenue,	400 00	
South end machine and carpenter shops, Pecousic avenue,	14,800 00	
House for barn man, Pecousic avenue,	500 00	
Trap rock bins and trestle, Summer street,	9,000 00	
State street ashes and garbage station,	600 00	
		47,050 00

HORSES AND VEHICLES.

Eight automobiles,	$3,850 00	
Two automobile trucks,	7,400 00	
Fifty-one horses,	11,900 00	
Three motorcycles,	450 00	
Fifty wagons,	4,500 00	
Twenty-six sleighs and sleds,	766 00	
Twenty-two water carts,	3,200 00	
		32,066 00
Amount carried forward,		$187,891 00

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Amount brought forward,.....		$187,891.00

TOOLS AND EQUIPMENT.

Asphalt plant,.....	$8,328 80	
Nine steam road rollers,.....	15,427 00	
Other highway tools and road machinery,....	6,785 38	
Sewer tools and equipment,.....	1,014 40	
Machine shop equipment,.....	315 01	
Ashes, garbage and waste division, equipment,	84 50	
Stables and yards equipment,.....	144 00	
Equipment for horse drawn vehicles,.....	889 70	
Street signs,.....	1,718 89	
Blacksmith shop equipment,.....	279 02	
Carpenter shop equipment,.....	1,042 87	
Street lighting shop equipment,.....	353 26	
Engineering equipment,.....	2,064 30	
Office equipment,.....	1,510 55	
		39,957 68

SUPPLIES AND MATERIALS.

Highway supplies and materials,.....	$10,657 60	
Stables and yard, supplies and materials,....	34 75	
Provender and supplies for rolling stock,.....	703 06	
Walks and curbing, supplies and materials,..	231 44	
Machine shop stock,.....	581 61	
Blacksmith shop stock,.....	272 14	
Carpenter shop stock,.....	772 83	
Street lighting, mastarms, goose necks and meters,.....	26,346 00	
Office supplies and materials,.....	75 00	
		39,674 43
		$267,523 11
Total value of Sewer System,.....		1,656,135 54
		$1,923,658 65

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WATER DEPARTMENT.

Land purchased of C. J. Stebbins,		$693 00	
Land purchased of L. A. Rice,		726 00	
Land purchased of James Kirkham,		3,050 00	
Mains, etc., since original purchase of Springfield Aqueduct Company's property in 1872, cost,		1,366,276 03	
Ludlow main, No. 2,		320,986 83	
Ludlow and Belchertown property, cost to date,		950,262 08	
Ludlow intermittent filter plant, cost to date,		50,723 94	
Little River supply, construction,		2,016,435 83	
Real estate at Five Mile pond, cost,		2,611 72	
Real estate, Colton street, cost,		111,292 57	
Office property, Bridge street:—			
Land,	$24,700 00		
Brick buildings,	12,000 00		
Frame building,	4,500 00		
		41,200 00	
Land on Wight avenue,		6,121 00	
Stable on Wight avenue,		6,973 51	
Teams, tools, stock and fixtures,		130,243 84	
			$5,007,596 35

WATER STREET EXTENSION.

Land and buildings,	$95,228 00

DEPARTMENT OF PUBLIC PARKS.

Name.	Location.	Acres.	Valuation.
Armory St. Reservoir Park,	Armory street,	7.64	$8,000 00
Armory Street Triangle,	Armory street,	.02	400 00
Belmont Triangle,	Belmont avenue,	.03	600 00
Benton Lawn,	State street,	3.53	30,000 00
Calhoun Square,	Chestnut street,	2.43	35,000 00
Carew Triangle,	North Main street,	.08	12,000 00
Clarendon Fountain,	Clarendon street,	.10	500 00
Concord Terrace,	Concord terrace,	.15	1,000 00
Cottage Hill Grove,	Indian Orchard,	3.34	12,000 00
Amount carried forward,			$99,500 00

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Amount brought forward,.....			$99,500 00
Name.	**Location.**	**Acres.**	**Valuation.**
Court Sq. and Extension,	Main street,	3.87	1,400,400 00
Crescent Terrace,	Crescent terrace,	.48	2,000 00
Dartmouth Fountain,	Dartmouth st. (end),	.15	1,000 00
Dartmouth Terrace,	Dartmouth st. (end),	.39	1,500 00
Dorchester Rest,	Dorchester st. (end),	.11	1,000 00
Emerson Wight Playground,	Rutledge ave. (end),	6.55	40,000 00
Emily Bill Playground,	Franklin street,	3.86	35,000 00
Florentine Gardens,	Spruceland avenue,	.17	1,500 00
Forest Park,	Sumner avenue,	476.10	1,428,000 00
Garfield Triangle,	Garfield street,	.13	1,300 00
Gerrish Park,	Walnut street,	1.10	8,000 00
Grenada Terrace,	Grenada terrace,	3.51	2,000 00
Gunn Square,	Westford avenue,	.80	5,000 00
Kenwood Park,	Belmont avenue,	.39	1,500 00
Kenwood Terrace,	Sumner avenue,	2.12	1,500 00
Kibbe Fountain,	Federal street,	.07	1,200 00
Lafayette Rest,	Lafayette street (end),	.10	1,000 00
Magnolia Terrace,	Magnolia terrace,	.29	4,000 00
Maplewood Terrace,	Maplewood terrace,	.76	3,000 00
Marengo Park,	Marengo Park,	.46	3,500 00
Massachusetts Terrace,	Massachusetts avenue	.36	1,200 00
McKnight Glen,	Ingersoll Grove,	2.92	1,500 00
McKnight Triangle,	Bay street,	.62	3,000 00
Merrick Terrace,	State street,	.55	100,000 00
Mill Street Fountain,	Mill street,	.05	800 00
Mill River Rest,	Mill street,	.08	1,000 00
Oak Grove Park,	Oak Grove avenue,	.57	500 00
Sargeant's Rest,	North Main street,	.24	15,000 00
Smith's Triangle,	Maple street,	.09	2,500 00
Stearns Square,	Bridge street,	.46	200,000 00
Sumner Terrace,	Sumner avenue,	.17	1,500 00
Tapley Playground,	Sherman street,	1.07	7,000 00
The Levee,	Elm street (end),	1.11	16,300 00
Thompson Triangle,	St. James avenue,	1.06	5,000 00
Trinity Terrace,	Trinity terrace,	.25	2,000 00
Van Horn Reservoir Park,	Armory street,	68.72	18,000 00
Amount carried forward,.....			$3,417,200 00

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Amount brought forward,			$3,417,200 00
Name.	**Location.**	**Acres.**	**Valuation.**
Watershops Triangle,	Walnut street,	1.10	800 00
Westford Circle,	Westford avenue,	.35	2,000 00
West Street Triangle,	West street,	.13	400 00
Winchester Square,	State street,	.62	25,000 00
Permanent improvements to November 30, 1913:—			
Buildings, structures, etc.,		$93,700 00	
Roads, walks, ponds, etc.,		221,058 00	
			314,758 00
			$3,760,158 00

RECAPITULATION.

Birnie Avenue Extension,	$8,950 00	
Board of Health,	67,649 00	
Fire Department,	771,800 00	
Forestry Department,	4,090 53	
Miscellaneous,	26,179 00	
Municipal Group,	1,799,216 02	
North Street Extension,	185,914 00	
Pauper Department,	169,129 96	
Police Department,	174,510 25	
School Department,	3,710,303 71	
Department of Streets and Engineering,	1,923,658 65	
Water Department,	5,007,596 35	
Water Street Extension,	95,228 00	
		$13,944,225 47
Land, etc., in charge of Park Commission,		$3,760,158 00

Respectfully submitted,

JOHN G. MAXFIELD,
GEO. H. McCLEAN,
GEO. W. PIKE,
WILLIAM H. GRADY,
GEO. A. LANCIAUX,

Committee on City Property.

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THE CITY OF

SPRINGFIELD, MASSACHUSETTS

AUDITING DEPARTMENT

27 December, 1913.

To His Honor, the Mayor, and the City Council:—

During the fiscal year ended on 30 November, 1913, this department has audited all bills and pay rolls presented for payment. It has also, as required by ordinance, made the quarterly examinations of the accounts of the City Treasurer and of the Water Department, and the semiannual examinations of the accounts of the City Clerk and of the City Collector, all of which have been found correct.

The accounts of the Treasurer for the Commissioners of the Sinking Funds have been examined by this department and found correct.

Respectfully submitted,

WM. G. McINTYRE,

City Auditor.

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CITY OF SPRINGFIELD, MASS.

CONDENSED BALANCE SHEET

30 NOVEMBER, 1913

REVENUE ACCOUNTS

ASSET ACCOUNTS.		
Cash in Banks and Offices		$213,086.63
Cash in Water Department Office		433.21
Accounts Receivable:		
Uncollected Taxes, 1911	$2,174.70	
Uncollected Taxes, 1912	5,301.21	
Uncollected Taxes, 1913	509,951.43	
		517,427.34
Watering Streets, 1912	$16.93	
Watering Streets, 1913	6,126.04	
Water Department	21,144.62	
All Other	25,958.64	
		53,246.23
		$784,193.41

LIABILITY ACCOUNTS.		
Appropriation Balances, "Special Funds"		$116,247.71
Central Street Schoolhouse	$1,222.83	
Forest Park, Addition	10.00	
Gerrish Park	692.64	
Pecousic Avenue	3,267.83	
Schools, fireproofing	1,311.68	
Water Works, surplus balance	22,746.69	
Birnie Avenue Extension	787.84	
Page Boulevard	5,958.34	
Sherman Road	100.00	
Municipal Transportation Commission	4,113.05	
Garbage Disposal, State Street	12,297.39	
Rubbish Disposal, West Street	3,200.74	
Locust Street Layout	1,690.92	
Cross Street Widening	198.78	
Fire Apparatus, Motor	19,315.00	
Public Sanitary, Court Square	147.65	
Van Horn Reservoir, Bridge and Canal	3,500.00	
Tennis Courts, Holly Street, I. O.	21.46	
Forest Park Storage Building	500.00	
Dedication of Municipal Group	6,000.00	
Funded Debt, Premium Account	29,164.87	
Reserves:		
Water Works		433.21
Abatement of Taxes, 1911		10,159.75
Abatement of Taxes, 1912		10,999.93
Abatement of Taxes, 1913		29,102.50
Excise Tax		16,446.00
Commitments Unappropriated		53,246.23
		$236,635.33
Available Cash for 1914 Appropriations	$96,888.92	
Surplus	450,719.16	
Surplus of Revenue Assets		547,558.08
		$784,193.41

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NON-REVENUE ACCOUNTS

Asset Accounts.

Cash in Banks		$1,163,536.63
Sinking Funds:		
"City" Bonds	$959,695.02	
"Water" Bonds	57,433.39	
	$1,017,128.41	
Permanent Improvements, Betterments, etc. (Net Bonded Debt)	6,968,371.59	
		7,985,500.00
		$9,149,036.63

Liability Accounts.

Appropriation Balances		$1,163,536.63
Central Heating Plant	$2,988.75	
Court Square Extension	32,435.24	
Forest Park Menagerie Building	24.92	
Isolation Hospital Addition	36.62	
Little River Water Supply	60,717.36	
Lincoln School	1,010.79	
Locust Street Extension	365.23	
Municipal Group	103,690.12	
North Street Extension	20,404.35	
Schoolhouse, Sumner Avenue	3,050.80	
High School of Commerce	308,477.80	
Dwight Street Underpass	198,407.49	
Water Street Underpass	198,758.36	
Albany Street Sewer	111.35	
School Workshop, etc., Emery Street	2,574.01	
Almshouse, Remodeling Buildings	9,983.44	
Buckingham School, Land	110,000.00	
Buckingham School, Building	110,000.00	
Bonded Debts:		
"City" within statutory limit:		
With Sinking Funds	$1,765,000.00	
Serial	2,030,500.00	
	$3,795,500.00	
"City" outside statutory limit:		
Serial	1,831,000.00	
Total "City" Bonds	$5,626,500.00	
"Water":		
With Sinking Funds	$275,000.00	
Serial	2,084,000.00	
Total "Water" Bonds	2,359,000.00	
		7,985,500.00
		$9,149,036.63

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CITY OF SPRINGFIELD, MASS.
CASH RECEIPTS AND CASH PAYMENTS OF THE CITY TREASURY
FOR THE YEAR ENDED 30 NOVEMBER, 1913

SUMMARY

RECEIPTS.			PAYMENTS.		
From Revenue Sources	$5,735,659.93		For Revenue Purposes	$5,759,442.56	
From Non-Revenue Sources	1,558,174.86		For Non-Revenue Purposes	1,158,162.95	
Total Receipts for the Year		$7,293,834.79	Total Payments for the Year		$6,917,605.51
Cash Balance at Beginning of Year		1,000,393.98	Cash Balance at End of Year		1,376,623.26
		$8,294,228.77			$8,294,228.77

REVENUE ACCOUNTS

RECEIPTS.			PAYMENTS.		
Commonwealth of Massachusetts:			**Taxes:**		
Corporation Tax	$186,192.87		State	$255,920.00	
National Bank Tax	5,268.64		County	116,422.70	
Street Railway Tax	29,404.26		Corporation	2,242.75	
Soldiers' and Sailors' Benefits	13,691.00		National Bank	25,229.28	
		$234,556.77			$399,814.73
City Collector:			**Funded Debt:**		
Taxes, 1910-11-12	$507,544.80		City Serials	$142,200.00	
Taxes, 1913	2,252,385.32		Water Sinking Funds	200,000.00	
Sprinkling Streets, 1911-12	6,916.44				342,200.00
Sprinkling Streets, 1913	23,967.01		**Sinking Fund Requirements:**		
Sidewalks and Curbings	11,611.19		"City"	$69,300.00	
Sewers	37,338.43		"Water"	22,798.94	
Departmental	479,074.92				92,098.94
		3,318,838.11	Interest on "City" Bonds		170,447.00
Fees:			Temporary Loans		1,450,000.00
City Clerk	$2,596.60		Special Funds Accounts	$109,385.61	
City Collector	3,551.39		Water Department	610,061.96	
Sealer of Weights and Measures	670.83		Other Departmental Accounts	2,542,161.75	
		6,818.82	Interest on Temporary Loans	24,414.23	
Licenses:					3,285,973.55
Liquor	$144,699.00		Soldiers' and Sailors' Benefits		17,174.32
Dog	5,238.50		Refunds of Taxes		1,734.02
All Other	6,030.79				
		155,968.29			$5,759,442.56
Premium on Bonds		30,890.84			

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Court Fines (Police)		12,126.13
Water Department		217,575.61
Commissioners of the Sinking Funds		200,000.00
Loans in Anticipation of Taxes		1,450,000.00
Interest:		
Bank Deposits	$12,848.56	
Deferred Taxes	17,526.44	
		30,375.00
Taxes paid after Abatements		79.32
High Schools Lunches		14,265.33
Departmental Accounts		64,165.71
		$5,735,659.93
Cash Balance at Beginning of Year		222,073.58
		$5,957,733.51

Payments from Non-Revenue Sources	14,795.68
	$5,744,646.88
Cash Balance at End of Year	213,086.63
	$5,957,733.51

NON-REVENUE ACCOUNTS

Receipts.		
Bonds issued		$1,515,000.00
City Collector:		
Sumner Avenue School	$392.50	
Municipal Group	127.90	
Court Square Extension	917.77	
		1,438.17
Municipal Group		18.00
Little River Water Supply		19,316.87
High School of Commerce		2,001.82
North Street Extension		20,400.00
		$1,558,174.86
Cash Balance at Beginning of Year		778,320.40
		$2,336,495.26

Payments.		
Municipal Group	$547,516.47	
Central Heating Plant	5,442.71	
Fire Station, North Street	5,630.23	
Fire Apparatus, Motor	11,500.00	
Fire Station, North Main Street	11,950.00	
Locust Street Extension	258.32	
Schoolhouse, Sumner Avenue	727.34	
Schoolhouse, Lincoln	717.13	
Water Street Underpass	1,241.64	
Court Square Improvements	7,148.18	
Little River Water Supply	249,924.65	
Dwight Street Underpass	1,592.51	
Isolation Hospital	112.63	
Albany Street Sewer	49,888.65	
High School of Commerce	193,524.02	
Almshouse, Remodeling Buildings	34,016.56	
School Street School—Additional Land	14,500.00	
School Workshop, etc., Emery Street	22,425.99	
North Street Extension	10.00	
Forest Park Menagerie Building	35.92	
		$1,158,162.95
Transfers to Revenue Accounts		14,795.68
		$1,172,958.63
Cash Balance at End of Year		1,163,536.63
		$2,336,495.26

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CITY COLLECTOR IN ACCOUNT WITH THE CITY OF SPRINGFIELD.

FOR VARIOUS ACCOUNTS "COMMITTED" TO HIM FOR COLLECTION.

For Account of	DEBIT.			CREDIT			Uncollected Nov. 30, 1913
	Uncollected Nov. 30, 1912	Committed during the year	Total	Abatements, etc.	Payments to City Treasurer	Totals	
Auditing		$46.50	$46.50		$46.50	$46.50	
Ashes and Waste Removal		206.14	206.14		139.14	139.14	$67.00
Board of Health		73.88	73.88		56.66	56.66	17.22
Court Square Extension		917.77	917.77		917.77	917.77	
Contingent	$275.00	1,884.73	2,159.73	$66.67	1,909.73	1,976.40	183.33
Fire		212.00	212.00		212.00	212.00	
Forestry	101.05	471.91	572.96	17.60	454.31	471.91	101.05
Garbage Collection	207.30	520.70	728.00	108.20	610.90	719.10	8.90
Highways and Bridges	1,852.15	9,681.69	11,533.84	20.68	9,997.59	10,018.27	1,515.57
Isolation Hospital	3,453.02	14,577.26	18,030.28	3,924.11	5,640.19	9,564.30	8,465.98
Lighting Streets		175.42	175.42		175.42	175.42	
Municipal Group		127.90	127.90		127.90	127.90	
Municipal Heating and Lighting Plant		2,006.67	2,006.67	300.00	1,706.67	2,006.67	
Pauper	1,630.86	17,383.59	19,014.45	80.36	16,958.02	17,038.38	1,976.07
Police	39.03	1,066.72	1,105.75	11.25	817.97	829.22	276.53
Public Parks		51.00	51.00		51.00	51.00	
Sidewalks and Curbing	2,801.37	10,173.31	12,974.68	325.51	11,611.19	11,936.70	1,037.98
Sewers and Drains	5,916.10	36,606.37	42,522.47	4,931.60	37,338.43	42,270.03	252.44
Streets and Engineering		10,117.00	10,117.00	9.50	3,744.43	3,753.93	6,363.07
Schools	5,016.00	19,485.18	24,501.18	700.50	18,139.18	18,839.68	5,661.50
Schools, Rentals	16.00	884.50	900.50		868.50	868.50	32.00
Schoolhouse Repairs	14.40		14.40		14.40	14.40	
Street Sprinkling	59.33	2,744.64	2,803.97	144.50	2,659.47	2,803.97	
Soldiers' Relief		32.30	32.30		32.30	32.30	
Taxes, 1910	91.94		91.94	6.00	85.94	91.94	
Taxes, 1911	10,805.97	2,174.70	12,980.67	471.25	10,334.72	10,805.97	2,174.70
Taxes, 1912	467,897.12	42,053.95	509,951.07	7,525.72	497,124.14	504,649.86	5,301.21
Taxes, 1913		2,779,204.31	2,779,204.31	16,867.56	2,252,385.32	2,269,252.88	509,951.43
Water	5,541.92	432,625.14	438,167.06	1,789.40	415,233.04	417,022.44	21,144.62
Watering Streets, 1911	215.64		215.64	4.18	211.46	215.64	
Watering Streets, 1912	6,721.91		6,721.91		6,704.98	6,704.98	16.93
Watering Streets, 1913		30,095.86	30,095.86	2.81	23,967.01	23,969.82	6,126.04
	$512,656.11	$3,415,601.14	$3,928,257.25	$37,307.40	$3,320,276.28	$3,357,583.68	$570,673.57

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RECEIPTS.

GENERAL REVENUE.

Taxes.			
Current Year.			
Poll	$37,186.00		
Personal	449,775.65		
Real	1,765,423.67		
		$2,252,385.32	
Year 1912.			
Poll	$16,594.00		
Personal	68,248.68		
Real	412,287.46		
		497,130.14	
Previous Years		10,493.98	
From the State.			
Corporation		186,192.87	
Street Railway		29,404.26	
Bank		5,268.64	
			$2,980,875.21

LICENSES AND PERMITS.

Licenses.			
Liquor		$144,699.00	
All Other.			
Exhibition	$2,081.79		
Auctioneers	40.00		
Bowling Alleys	18.00		
Pool, Billiards, etc.	997.00		
Junk and Rags	373.00		
Milk, etc	339.00		
Pawnbrokers	325.00		
Peddlers	25.00		
Private Detectives	10.00		
Private Dances	116.00		
Intelligence Offices	36.00		
Sunday Sales	730.00		
Forward	$5,090.79	$144,699.00	$2,980,875.21

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Forward.....	$5,090.79	$144,699.00	$2,980,875.21
Second Hand Articles...	58.00		
Common Victualers.....	505.00		
Express.....	98.00		
All Other.....	31.00		
		5,782.79	
			150,481.79
PERMITS.			
Marriage.....		$1,054.00	
Street.....		3,567.76	
			4,621.76
FINES AND FORFEITURES.			
Court.....			12,126.13
GRANTS AND GIFTS.			
County, Dog Licenses....			5,238.50

COMMERCIAL REVENUE.

SPECIAL ASSESSMENTS AND PRIVILEGES.			
For Expense.			
Street Sprinkling.....		$30,883.45	
For Outlays.			
Sewers.....	$1,556.67		
Sidewalks and Curbing..	10,607.95		
		12,164.62	
			43,048.07
DEPARTMENTAL.			
General Government.			
Collector, Fees.....		$3,551.39	
City Clerk, Fees.....		1,517.35	
Assessors.....		13.60	
Auditing.....		46.50	
License Commissioners.		412.00	
Engineering.....		12.36	
Municipal Heating and Lighting.....		1,706.67	
Municipal Group.....		145.90	
			7,405.77
Forward.....			$3,203,797.23

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Forward.....			$3,203,797.23
PROTECTION OF LIFE AND PROPERTY.			
Police Department.			
Sale of Materials.....	$569.22		
Emergency Fund.....	200.00		
All Other.....	89.75		
		$858.97	
Fire Department.			
Sale of Materials.....	$188.00		
All Other.....	2,302.75		
		2,490.75	
Militia Rifle Range.....		35.00	
Inspection.			
Sealer of Weights and Measures.....		670.83	
Forestry.			
Care of Trees.....	$360.01		
Street Signs.....	94.30		
		454.31	
			4,509.86
HEALTH AND SANITATION.			
Health.			
Quarantine and Contagious Disease Hospitals.....	$3,189.51		
Tuberculosis.....	2,450.68		
Miscellaneous.....	51.66		
		$5,691.85	
Sanitation.			
Sewer.....	$37,364.82		
Refuse and Garbage....	750.04		
		38,114.86	
			43,806.71
STREETS AND ENGINEERING.			
Repairing.....		$8,224.29	
Construction.....		20,400.00	
Sidewalks and Curbing...		1,235.07	
Forward.....		$29,859.36	$3,252,113.80

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Forward.....		$29,859.36	$3,252,113.80
Sprinkling.			
Water.....	$2,654.06		
Oil.....	128.13		
		2,782.19	
Lighting.....		179.42	
Miscellaneous.....		7,600.00	
			40,420.97
CHARITIES.			
Almshouse.			
Sale of Products.....	$2,718.31		
Board.....	3,674.45		
Miscellaneous.....	2.00		
		$6,394.76	
Reimbursements.			
From Individuals.....	$149.84		
From Other Cities and Towns.....	5,116.68		
From the State.....	5,296.74		
Emergency Fund.....	200.00		
		10,763.26	
			17,158.02
SOLDIERS' AND SAILORS' BENEFITS.			
State Aid.....		$13,021.00	
Military Aid.....		41.00	
Soldiers' and Sailors' Burials.....		629.00	
Soldiers' Relief.....		32.30	
			13,723.30
EDUCATION.			
Tuition and Transportation of State Wards..		$6,310.62	
Tuition.....		17,980.91	
Sale of Text-books and Supplies.....		432.22	
Forward.....		$24,723.75	$3,323,416.09

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Forward.....		$24,723.75	$3,323,416.09
Miscellaneous.			
High Schools Lunch....	$13,965.33		
Emergency fund, H.S.L.	300.00		
Sale of Old Materials...	9,171.00		
Rent.....	1,201.00		
Offset to Outlay.....	2,394.32		
Emergency Fund.....	100.00		
Sale of Land.....	7,379.50		
		34,511.15	
			59,234.90
RECREATION.			
Parks and Gardens.....		$1,104.50	
Bath Houses.....		487.00	
Court Square Extension..		917.77	
			2,509.27
UNCLASSIFIED.			
Rents.....			9,383.92
PUBLIC SERVICE ENTERPRISES.			
Water.			
Income from Sale of Water.....		$359,445.98	
Miscellaneous Sales....		55,787.06	
From Little River.....		217,575.61	
Offset to Outlays.....		19,316.87	
			652,125.52
INTEREST.			
On Deposits.....		$11,714.92	
On Deferred Taxes.....		17,412.12	
On Departmental Bills...		114.32	
Accrued Interest on Bonds		1,158.89	
			30,400.25
MUNICIPAL INDEBTEDNESS.			
Tax Loans.....		$1,450,000.00	
Loans for General Purposes		1,515,000.00	
Premiums.....		30,890.84	
Public Service Enterprises		200,000.00	
			3,195,890.84
Forward.....			$7,272,960.79

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Forward.....		$7,272,960.79
REFUNDS.		
Taxes paid after Abatement.....	$56.00	
Licenses.....	6,362.12	
General Departments, Duplicate Bills.....	127.49	
All Other.....	14,328.39	
		20,874.00
		$7,293,834.79

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PAYMENTS—REVENUE.

GENERAL GOVERNMENT.

Legislative.		
Salary, Clerk of Common Council...	$350.00	
Stationery and Postage.....	10.60	
Printing and Advertising.....	3,659.45	
Traveling Expenses.....	138.47	
All Other.....	513.27	
		$4,671.79
Charter Revision.....		170.95
Municipal Transportation Commission		352.25
Executive.		
Mayor.		
Salary.....	$4,000.00	
Clerks.....	1,263.33	
Stationery and Postage.....	238.78	
Printing and Advertising.....	76.17	
Telephone.....	59.19	
Entertainment.....	324.30	
All Other.....	236.42	
		6,198.19
Financial.		
Auditor.		
Salary.....	$2,874.97	
Clerks.....	2,261.26	
Stationery and Postage.....	304.23	
Printing and Advertising.....	210.23	
Telephone.....	45.05	
All Other.....	31.56	
		5,727.30
Treasurer.		
Salary.....	$3,208.30	
Clerks.....	5,438.26	
Stationery and Postage.....	318.59	
Printing and Advertising.....	134.64	
Telephone and Burglar Alarm.....	207.20	
Chauffeur, Car Fares, etc.....	363.00	
All Other.....	472.36	
		10,142.35
Forward.....		$27,262.83

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Forward		$27,262.83
Collector.		
Salary	$3,174.96	
Clerks	6,998.99	
Stationery and Postage	2,037.59	
Printing and Advertising	2,404.76	
Telephone	25.45	
All Other	546.07	
		15,187.82
Assessors.		
Salaries	$6,500.01	
Assistant Assessors	1,483.00	
Clerks	5,833.70	
Stationery and Postage	232.57	
Printing and Advertising	2,227.74	
Telephone	19.45	
All Other	521.10	
		16,817.57
License Commissioners.		
Salary	$250.00	
Clerk	150.00	
Stationery and Postage	1.25	
Printing and Advertising	110.50	
Rent	300.00	
All Other	15.00	
		826.75
OTHER GENERAL DEPARTMENTS.		
Law.		
City Solicitor and Assistant	$3,600.00	
Stenographer	504.00	
Stationery and Postage	304.69	
Witness Fees	127.25	
Telephone	5.10	
All Other	317.03	
		4,858.07
Forward		$64,953.04

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Forward		$64,953.04
City Clerk.		
Salary	$2,883.31	
Assistant City Clerk	1,174.98	
Clerks	3,688.25	
Stationery and Postage	171.43	
Printing and Advertising	280.85	
Telephone	66.03	
All Other	292.20	
		8,557.05
City Messenger.		
Salary	$517.86	
Salary of Assistant	375.00	
Telephone	30.22	
All Other	6.09	
		929.17
Public Works.		
Salaries	$1,206.00	
Printing and Advertising	44.97	
Auto Service	90.00	
All Other	58.50	
		1,399.47
Election and Registration.		
Registrars	$1,024.50	
Clerk	900.00	
Election Officers, etc.	4,377.00	
Stationery and Postage	108.10	
Printing and Advertising	6,332.41	
All Other	1,636.23	
		14,378.24
Municipal Buildings.		
City Hall.		
Janitor	$1,305.00	
Furniture and Furnishings	57.22	
Light and Fuel	755.86	
Other Expenses	251.04	
		2,369.12
Forward		$92,586.09

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Forward.....			$92,586.09
Municipal Buildings.			
Municipal Group Buildings.			
Superintendent.....	$1,302.88		
Assistants.....	5,030.96		
Lights.....	2,257.90		
Telephone.....	34.70		
Supplies.....	956.62		
Stationery and Postage.	30.53		
All Other.....	853.00		
			10,466.59
Municipal Heating and Lighting Plant.			
Engineer.....	$1,795.04		
Coal.....	5,324.24		
Firemen.....	4,795.93		
Telephone.....	44.46		
Supplies.....	834.79		
Light.....	177.44		
Other Expenses.....	73.35		
		$13,045.25	
Less sum paid by Police and Fire for heating buildings...		4,107.50	
			8,937.75
Protection of Life and Property.			
Police Department.			
Salaries and Wages.			
Chief and Assistants...	$30,759.76		
Patrolmen.....	114,249.25		
Other Salaries and Wages	23,582.51		
		$168,591.52	
Auto Maintenance.			
Auto Repairs.....	$663.30		
Auto Supplies.....	1,368.56		
Gasoline.....	167.51		
		2,199.37	
Forward.....		$170,790.89	$111,990.43

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Forward.....		$170,790.89	$111,990.43
Fuel and Light.....		3,943.81	
Equipment.			
Bertillon Supplies.....	$289.82		
Outlays.....	2,639.00		
Uniforms.....	2,308.82		
Signal Boxes.....	1,023.18		
All Other.....	491.15		
		6,751.97	
Repairs on Buildings.....		1,680.40	
Pensions.....		2,570.77	
Other Expenses.			
Printing and Stationery.	$1,345.34		
Telephone.....	1,194.31		
Meals and Ice.....	759.92		
Shoeing.....	181.05		
All Other.....	3,416.65		
Janitors' Supplies.....	446.53		
		7,343.80	
			193,081.64
Fire Department.			
Salaries and Wages.			
Chief Engineer.....	$2,734.27		
Assistant Engineers....	4,961.58		
Firemen.....	189,928.32		
Callmen.....	516.00		
Other Employees.....	2,513.03		
		$200,653.20	
Horses and Care of Same.			
Horses and Harness....	$35.04		
Hay, Grain and Straw..	4,739.72		
Shoeing.....	1,123.13		
Veterinary and Medicines.....	375.00		
All Other.....	289.00		
		6,561.89	
Forward.....		$207,215.09	$305,072.07

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Forward.....		$207,215.09	$305,072.07
Fuel and Light.			
Coal.....	$6,084.94		
Wood.....	1.19		
Gas.....	170.87		
Electricity.....	1,166.23		
		7,423.23	
Equipment and Repairs.			
Supplies.....	$3,260.75		
Apparatus.....	5,307.23		
Hose.....	3,068.65		
Equipment for Men....	640.45		
Alarm Boxes.....	2,347.13		
Fire Apparatus Motor..	4,685.00		
All Other.....	632.75		
		19,941.96	
Repairs on Buildings.....		2,964.90	
Pensions.....		1,524.95	
Outlays.....		21,276.58	
Telephone.....		775.47	
Other Expenses.....		4,001.73	
			265,123.91
Electric.			
City Wires Underground.			
Material and Labor.....		$189.69	
Cable.....		2,615.58	
Posts.....		135.00	
All Other.....		47.88	
			2,988.15
Militia.			
Salaries and Wages.....		$1,235.00	
Repairs.....		6.75	
Taxes and Water Rent.....		159.05	
All Other.....		36.81	
			1,437.61
Forward.....			$574.621.74

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Forward		$574,621.74
Inspection of Buildings.		
Inspectors	$5,690.53	
Clerk	727.02	
Plumbing Inspectors	3,400.00	
Gas and Wire Inspectors	3,999.96	
Stationery and Postage	199.26	
Printing and Advertising	323.82	
Telephone	35.35	
Furniture	53.42	
Tickets	550.00	
All Other	399.44	
		15,378.80
Inspection of Wires.		
Inspector	$350.00	
Printing and Advertising	12.60	
		362.60
Sealer of Weights and Measures.		
Sealer	$525.00	
Deputy Sealer	1,000.03	
Inspector of Coal	100.05	
Stationery and Postage	33.05	
Printing and Advertising	43.65	
Auto Service	656.70	
Telephone	36.35	
Transportation	150.98	
Rent	90.00	
All Other	68.13	
		2,703.94
Forestry.		
Superintendent	$1,487.50	
Labor	10,719.90	
Horses and Care of Same	22.25	
All Other	3,122.47	
		15,352.12
Forward		$608,419.20

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Forward			$608,419.20
Other Protection of Life and Property.			
Fish Warden, Salary		$25.00	
Salary of Smoke Inspector		250.00	
Labor		290.50	
All Other		43.35	
			608.85
Health.			
General Administration.			
Salaries, Agent and Physician	$3,279.12		
Clerk	850.00		
Stationery and Postage.	143.54		
Printing and Advertising	269.62		
Telephone	56.26		
Transportation	195.00		
All Other	259.44		
		$5,052.98	
Quarantine and Contagious Disease Hospitals.			
Board and Treatment	$1,045.10		
Head Nurse	900.00		
Nurses	3,798.19		
Other Employees	2,382.14		
Groceries and Provisions	7,533.09		
Drugs and Medicine	1,333.37		
Fuel and Light	2,642.47		
Dry Goods and Clothing	448.62		
Household Supplies	319.47		
Building Repairs	428.44		
All Other	2,461.54		
		23,292.43	
Sanitary Inspectors		3,987.66	
Tuberculosis.			
Board and Treatment	$3,816.99		
Aid	1,286.73		
Clothing	147.89		
		5,251.61	
Forward		$37,584.68	$609,028.05

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Forward.....		$37,584.68	$609,028.05
Vital Statistics.....		1,384.55	
Other Expenditures.			
Fumigation and Disinfectants.....	$181.05		
Vaccinations.....	30.00		
Laboratory.....	1,108.05		
All Other.....	25.00		
		1,344.10	
Inspection.			
Inspection of School Children.....	$5,702.92		
Inspection of Meats and Provisions.....	1,200.00		
Inspection of Milk and Vinegar.....	3,035.40		
		9,938.32	
			50,251.65

STREETS AND ENGINEERING.

Administration.....	$29,307.16	
Engineering.....	15,464.45	
Sewers.....	56,092.68	
Garbage Removal.....	17,675.75	
Garbage Removal, Pension Fund....	251.59	
Ashes and Waste Removal.....	45,613.13	
Street Cleaning.....	70,098.28	
Highways.....	382,077.26	
Highways, Pension Fund.....	442.67	
Bridges.....	8,910.84	
Sidewalks and Curbing.....	37,135.43	
Sprinkling Streets.....	17,045.40	
Oiling Streets.....	18,056.94	
Lighting Streets.....	123,358.47	
Repair Shop.....	10,449.47	
Stable and Yards.....	69,212.54	
Birnie Avenue Extension.....	13,806.03	
Forward.....	$914,998.09	$659,279.70

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Forward		$914,998.09	$659,279.70
Page Boulevard		16,532.37	
Water Street Widening		16,883.89	
Belmont Avenue Special		15,043.54	
Locust Street Layout		2,734.46	
Cross Street Widening		16,601.22	
Garbage Disposal, State Street		2,395.58	
Rubbish Disposal, West Street		7,195.97	
Other Expenses, Street Signs		119.43	
Rubbish Disposal, South End		1,327.77	
			993,832.32

CHARITIES.

General Administration.			
Salary of Agent	$2,000.00		
Salaries of Clerks	1,945.50		
Stationery, Printing and Postage	208.06		
Telephone	140.53		
City Physician	1,250.00		
All Other	103.06		
		$5,647.15	
Almshouse and Farm.			
Superintendent	$1,200.00		
Other Salaries and Wages	8,573,44		
Groceries and Provisions	7,687.23		
Dry Goods and Clothing	1,164.15		
Repairs	513.25		
Fuel and Light	2,122.50		
Equipment and Supplies	2,455.70		
Furniture and Furnishings	330.54		
Burials	31.70		
Stock and Care	2,221.82		
Farming	1,133.82		
Medicine	766.12		
Forward	$28,200.27	$5,647.15	$1,653,112.02

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Forward.....	$28,200.27	$5,647.15	$1,653,712.02
Wayfarers' Lodge.....	4,842.21		
All Other.....	65.15		
	$33,107.63		
Less care paid by Isolation Hospital and Soldiers' Relief.....	366.41		
		32,741.22	
Outside Relief by City.			
Aid to Paupers.....	$1,504.39		
Burials.....	449.00		
Groceries, Provisions, Fuel, etc.....	7,850.87		
Medicines and Medical Attendance.....	3,252.67		
State Institutions.....	137.57		
Other Expenses.			
Cities.....	487.06		
Towns.....	505.08		
Children's Institutions..	91.43		
		14,278.07	
SOLDIERS' BENEFITS.			52,666.44
General Administration.			
Agent's Salary.....		$716.67	
Agent's Expenses.....		14.92	
Burial Agent.....		28.00	
State Aid.....		11,656.00	
Military Aid.....		38.00	
Soldiers' Burials.....		642.00	
Soldiers' Relief.....		4,078.73	
			17,174.32
EDUCATION.			
General Expenses.			
Administrative Salaries.			
Superintendent.....	$5,000.00		
Superintendent's Clerk.	850.00		
Secretary of Board.....	100.00		
		$5,950.00	
Forward.....		$5,950.00	$1,722,952.78

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Forward.....		$5,950.00	$1,722,952.78
Other General Salaries.			
Chief Clerk.....	$2,200.00		
Clerks.....	2,267.00		
Truant Officers.....	2,923.44		
Schoolhouse Agent.....	1,802.88		
Sundry Persons.....	984.12		
		10,177.44	
Other General Expenses.			
Stationery and Postage.	$631.72		
Printing and Advertising	188.66		
Telephone.....	171.35		
Traveling Expenses, Principal.....	232.28		
Traveling Expenses, Superintendent.....	114.21		
School Census.....	700.00		
All Other.....	718.43		
		2,756.65	
Teachers' Salaries.			
General.....	$501,724.08		
Matrons.....	2,367.85		
Clerical Assistants.....	2,928.25		
		507,020.18	
Text-Books and Supplies.			
Text and Reference Books.....	$15,821.10		
Supplies and Equipment	36,830.18		
Pianos and Tuning.....	90.55		
Handling Supplies.....	797.00		
Physical Training.....	1,909.97		
Elementary Science....	240.94		
Freight and Cartage...	1,903.64		
Printing.....	2,996.22		
Hygiene.....	32.05		
All Other.....	475.55		
Drawing.....	959.31		
Forward.....	$62,056.51	$525,904.27	$1,722,952.78

Digitized by Google

Forward.....	$62,056.51	$525,904.27	$1,722,952.78
Laboratory.....	1,961.75		
Manual Training.....	4,019.18		
Telephone.....	1,095.60		
		69,133.04	
Transportation.			
Auto.....	$774.95		
Teams.....	770.00		
Car Fares.....	348.05		
		1,893.00	
Support of Truants.....		648.10	
Tuition.....		99.44	
Janitors' Services.			
Janitors.....	$51,663.75		
Special Cleaning.....	773.58		
		52,437.33	
Fuel and Light.			
Coal.....	$27,067.57		
Electricity.....	8,878.84		
Gas.....	1,443.79		
All Other.....	45.50		
		37,435.70	
Maintenance of Buildings and Grounds.			
Carpentry.....	$4,023.32		
Masonry.....	1,303.71		
Gas and Plumbing.....	3,034.13		
Painting and Glazing...	5,593.58		
Lumber, Brick, etc.....	4,029.63		
Flags and Flag Staffs...	72.22		
Janitors' Supplies.....	3,265.83		
Laundry Work.....	369.60		
Heating and Ventilating	5,947.31		
Electrical Work.....	3,563.56		
Lawns and Walks.....	1,615.95		
All Other.....	4,139.37		
		36,958.21	
Forward.....		$724,509.09	$1,722,952.78

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Forward.....		$724,509.09	$1,722,952.78
Furniture and Furnishings.			
Desks, Chairs, etc.....	$5,599.38		
Clocks.....	278.73		
All Other.....	836.05		
		6,714.16	
Rent and Motor Service..		1,414.80	
Other Expenses.			
Diplomas.....	$219.00		
Graduation Exercises...	299.87		
Carriage and Express...	60.45		
Advertising.....	86.56		
All Other.....	556.03		
		1,221.91	
High Schools Lunch.			
Services.....	$3,225.80		
Supplies.....	9,201.92		
		12,427.72	
			746,287.68
Central Street School.			
Labor and Material....		$732.91	
Contracts.....		2,088.00	
Commission.....		353.85	
All Other.....		14.65	
			3,189.41
High School of Commerce.			
Architects and Engineers			317.63
LIBRARIES.			
Appropriations.....		$55,500.00	
Dog Licenses.....		5,238.50	
			60,738.50
RECREATION.			
General Administration.			
Superintendent.....	$2,708.31		
Clerk.....	900.00		
		$3,608.31	
Forward.....		$3,608.31	$2,533,486.00

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Forward.....		$3,608.31	$2,533,486.00
Other Expenses.			
Stationery and Postage.	$128.81		
Printing and Advertising	269.08		
Telephone.....	81.57		
All Other.....	19.65		
		499.11	
Parks and Gardens.			
Salaries and Wages....		26,976.29	
Other Expenses.			
Horses and Teams.....	$3,746.51		
Supplies.....	3,884.23		
Repairs on Buildings...	212.60		
Food for Animals.....	1,905.38		
Tools and Fixtures.....	2,424.22		
All Other.....	313.31		
		12,486.25	
Drinking Fountains.....		734.04	
Construction.....		16,684.82	
Public Parks, Pension Fund		203.00	
Playgrounds and Gymnasium.			
Salaries and Wages....	$10,303.98		
Gymnasium Apparatus and Supplies.....	1,179.04		
New Work.....	652.50		
All Other.....	427.36		
		12,562.88	
Celebrations.			
Fourth of July....	$1,500.00		
Memorial Day....	750.00		
		2,250.00	
Band Concerts.....		490.00	
Public Sanitary, Court Square.....		352.35	
Tennis Courts, Holly Street, I. O.....		778.54	
Gerrish Park.....		55.75	
			77,681.34
Forward.....			$2,611,167.34

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Forward.....			$2,611,167.34
UNCLASSIFIED.			
Damages to Persons and Personal Property....		$4,395.85	
City Clocks.....		16.25	
Printing and Stationery.			
Expert Printer.....	$350.00		
Stationery and Postage.	54.60		
Printing and Advertising	15.93		
All Other.....	2.50		
		423.03	
			4,835.13
Land for Schoolhouse Purposes, Franklin Street			6,500.00
PUBLIC SERVICES ENTERPRISES.			
Water.			
Maintenance and Operation.....		$309,473.29	
Construction.....		146,781.94	
Stock.....		153,806.73	
			610,061.96
ADMINISTRATION OF TRUST FUNDS.			
Salary.....		$300.00	
Rent of Safe Deposit Box		25.00	
			325.00
INTEREST.			
Temporary Loans in Anticipation of Taxes...		$24,414.23	
Loans for General Purposes.			
Highways.....	$9,760.00		
Sewers.....	7,990.00		
Schools.....	60,909.00		
Parks.....	5,823.00		
All Other.....	85,965.00		
		170,447.00	
			194,861.23
Forward.....			$3,427,750.66

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Forward.....			$3,427,750.66
Municipal Indebtedness.			
Temporary Loans.			
Anticipation of Taxes..		$1,450,000.00	
Bonds and Notes from Revenue.			
Highways.....	$27,000.00		
Sewers.....	5,500.00		
Schools.....	27,900.00		
Parks.....	3,800.00		
All Other.....	78,000.00		
		142,200.00	
Public Service Enterprises.			
Water.....		200,000.00	
			1,792,200.00
Sinking Funds.			
Appropriation, City Government.....		$69,300.00	
Water Sinking Fund...		22,798.94	
			92,098.94
Agency Transactions.			
Taxes.			
State.....	$255,920.00		
Non-Resident.....	25,229.28		
County.....	116,422.70		
		$397,571.98	
Liquor Licenses.			
Remitted to State.....		36,173.75	
			433,745.73
Refunds.			
Taxes.....		$1,914.34	
Licenses.....		6,362.12	
Appraising Property.....		576.55	
Isolation Hospital.....		11.00	
School Street School Addition.....		14.50	
Police Department.....		200.00	
Forward.....		$9,078.51	$5,745,795.33

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Forward.....	$9,078.51	$5,745,795.33
Pauper Department.....	200.00	
School Department.....	100.00	
High School Lunch Fund.....	300.00	
Public Service Corporation Tax.....	2,238.01	
Business Corporation Tax.....	4.74	
		11,921.26
PREMIUM ACCOUNT.		
Expenses of Bond Issue.....		1,725.97
Total.....		$5,759,442.56

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PAYMENTS—NON-REVENUE.

GENERAL GOVERNMENT.

Municipal Group.

Contracts	$471,943.02		
Architects	11,982.68		
Clerk of the Works	2,561.88		
Consulting Engineers	1,237.43		
Bells	2,900.00		
Furniture and Fixtures	51,629.47		
Office Expenses	1,567.70		
All Other	3,694.29		
		$547,516.47	

Central Heating Plant.

Contracts	$3,781.31		
Coal	226.77		
Consulting Engineers	304.73		
Labor and Supplies	391.30		
All Other	738.60		
		5,442.71	
			$552,959.18

PROTECTION OF LIFE AND PROPERTY.

Fire Department.

Fire Station, N. Main Street		$11,950.00	
Fire Station, North Street		5,630.23	
Fire Apparatus Motor		11,500.00	
			29,080.23

HEALTH AND SANITATION.

Health.

Isolation Hospital Addition		$112.63	
Sanitation.			
Albany Street Sewer		49,888.65	
			50,001.28
Forward			$632,040.69

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Forward.....			$632,040.69
STREETS AND ENGINEERING.			
Streets.			
North Street Extension.		$10.00	
Locust Street Extension.		258.32	
Dwight St. Underpass..		1,592.51	
Water St. Underpass...		1,241.64	
			3,102.47
EDUCATION.			
New Buildings.			
Schoolhouse, Sumner Av	$727.34		
Schoolhouse, Lincoln...	717.13		
High School of Commerce	193,524.02		
School Workshop, etc., Emery Street.....	22,425.99		
		$217,394.48	
Additions.			
School Street School, Additional Land.....		14,500.00	
			231,894.48
CHARITIES.			
Almshouse, Remodeling Buildings.....			34,016.56
RECREATION.			
Parks and Gardens.			
Forest Park Menagerie Building.....		$35.92	
Court Sq. Extension....		7,148.18	
			7,184.10
PUBLIC SERVICE ENTERPRISES.			
Water.			
Little River Water Supply.			
Labor.....		$245.82	
Appraising Property....		796.50	
Land Damages.....		28,875.00	
Transfer to Water.....		217,575.61	
Legal Fees.....		1,676.80	
All Other.....		754.92	
			249,924.65
			$1,158,162.95

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REPORT

OF THE

COMMISSIONERS OF THE SINKING FUNDS

SPRINGFIELD, MASS., November 24, 1913.

To His Honor, the Mayor, and City Council.

GENTLEMEN:—The Commissioners of the Sinking Funds of the City of Springfield have the honor to report the condition of the sinking funds, established to meet indebtedness of the city, and the income accruing to the same for the year ending November 17, 1913, as follows:—

WATER WORKS.

$275,000, 3½% and 4% bonds, 1920 and 1923.

RECEIPTS.

Amount on hand at last report,		$226,717 30	
Surplus balance from Water Department for 1912, received December 27, 1912,		22,798 94	
Interest on investments,		7,424 82	
Addition of difference between price paid and par value of bonds bought during the year,		689 00	
		$257,630 06	
Accrued interest paid on bonds—charged off,	$196 67		
By payment April 1, 1913, to City Treasurer to meet 4% Water bonds, Nos. 1776 to 1975, issued April 1, 1893,	200,000 00		
		200,196 67	
			$57,433 39

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INVESTMENTS.

City of Springfield bonds,	$21,000 00	
Other Municipal bonds,	3,000 00	
Railroad bonds,	26,000 00	
Mortgage note,	4,000 00	
Cash in bank at interest,	3,433 39	
		$57,433 39

SCHOOLHOUSE, WARD SIX.

Loan $35,000, 4% bonds, October 1, 1895, 20 years.

RECEIPTS.

Amount on hand at last report,	$31,956 94	
Interest on investments,	1,291 61	
Addition of difference between price paid and par value of bonds bought during the year,	160 00	
	$33,408 55	
Accrued interest paid on bonds—charged off,	72 74	
		$33,335 81

INVESTMENTS.

City of Springfield bonds,	$13,000 00	
Municipal bonds,	7,950 00	
Railroad bonds,	6,000 00	
Street Railway bonds,	5,000 00	
Cash in bank at interest,	1,385 81	
		$33,335 81

HIGH SCHOOL LOAN.

Loan $370,000, 4% bonds, January 1, 1897, 20 years.

RECEIPTS.

Amount on hand at last report,	$279,025 08	
Appropriation of City Council received November 14, 1913,	13,000 00	
Interest on investments,	10,349 49	
Addition of difference between price paid and par value of bonds bought during the year,	6 00	
	$302,380 57	
Accrued interest paid on bonds—charged off,	108 34	
		$302,272 23

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INVESTMENTS.

City of Springfield bonds,	$154,000 00	
Bonds, Municipal and Town,	49,050 00	
Railroad bonds,	39,000 00	
Street Railway bonds,	41,000 00	
Mortgage note,	5,000 00	
Cash in bank at interest,	14,222 23	
		$302,272 23

SCHOOL LOAN, 1900.

Loan $145,000, 3% and 3½% bonds, December 1, 1899, and June 1, 1900, 20 years.

RECEIPTS.

Amount on hand at last report,	$83,323 21	
Appropriation of City Council received November 14, 1913,	5,400 00	
Interest on investments,	2,961 57	
Addition of difference between price paid and par value of bonds bought during the year,	67 15	
	$91,751 93	
Accrued interest paid on bonds—charged off,	102 31	
		$91,649 62

INVESTMENTS.

City of Springfield bonds,	$55,500 00	
Municipal bonds,	5,250 00	
Railroad bonds,	19,000 00	
Street Railway bonds,	500 00	
Mortgage note,	2,300 00	
Cash in bank at interest,	9,099 62	
		$91,649 62

SEWER LOAN, 1900.

Loan $142,000, 3% bonds, June 1, 1900, 30 years.

RECEIPTS.

Amount on hand at last report,	$48,860 42	
Appropriation of City Council received November 14, 1913,	3,000 00	
Interest on investments,	1,849 50	
		$53,709 92

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INVESTMENTS.

City of Springfield bonds,	$30,000 00	
Municipal bonds,	8,000 00	
Railroad bonds,	5,000 00	
Street Railway bonds,	5,300 00	
Cash in bank at interest,	5,409 92	
		$53,709 92

SCHOOL LOAN, 1901.

Loan $125,000, 3½% bonds, September 1, 1901, 20 years.

RECEIPTS.

Amount on hand at last report,	$66,325 98	
Appropriation of City Council received November 14, 1913,	4,900 00	
Interest on investments,	2,565 63	
	$73,791 61	
Accrued interest paid on bonds—charged off,	19 50	
		$73,772 11

INVESTMENTS.

City of Springfield bonds,	$34,000 00	
Municipal bonds,	10,000 00	
Railroad bonds,	10,000 00	
Mortgage note,	12,000 00	
Cash in bank at interest,	7,772 11	
		$73,772 11

SCHOOL LOAN, 1902.

Loan $55,000, 3½% bonds, October 1, 1902, 20 years.

RECEIPTS.

Amount on hand at last report,	$25,253 81	
Appropriation of City Council received November 14, 1913,	2,200 00	
Interest on investments,	984 40	
		$28,438 21

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INVESTMENTS.

City of Springfield bonds,	$14,500 00	
Municipal bonds,	2,000 00	
Railroad bonds,	5,000 00	
Street Railway bonds,	500 00	
Mortgage note,	3,900 00	
Cash in bank at interest,	2,538 21	
		$28,438 21

PUBLIC PARK LOAN, 1903.

Court Square Extension.
Loan $125,000, 3½% bonds, June 1, 1903, 20 years.

RECEIPTS.

Amount on hand at last report,	$59,592 15	
Appropriation of City Council received November 14, 1913,	4,700 00	
Interest on investments,	2,164 10	
		$66,456 25

INVESTMENTS.

City of Springfield bonds,	$40,000 00	
Railroad bonds,	12,000 00	
Street Railway bonds,	6,700 00	
Cash in bank at interest,	7,756 25	
		$66,456 25

SCHOOL LOAN, 1903.

Loan $40,000, 3½% bonds, September 1, 1903, 20 years.

RECEIPTS.

Amount on hand at last report,	$17,577 04	
Appropriation of City Council received November 14, 1913,	1,600 00	
Interest on investments,	661 25	
Addition of difference between price paid and par value of bonds bought during the year,	70 00	
	$19,908 29	
Accrued interest paid on bonds—charged off,	15 56	
		$19,892 73

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INVESTMENTS.

City of Springfield bonds,	$12,500 00	
Municipal bonds,	1,000 00	
Railroad bonds,	3,000 00	
Cash in bank at interest,	3,392 73	
		$19,892 73

SCHOOL LOAN, 1905.

Technical High School and White Street Grammar School.
Loan $396,000, 3½% bonds, January 1, 1905, 20 years.

RECEIPTS.

Amount on hand at last report,	$135,015 33	
Appropriation of City Council received November 14, 1913,	15,000 00	
Interest on investments,	4,791 02	
Addition of difference between price paid and par value of bonds bought during the year,	45 70	
	$154,852 05	
Accrued interest paid on bonds—charged off,	269 10	
		$154,582 95

INVESTMENTS.

City of Springfield bonds,	$115,000 00	
Municipal bonds,	3,000 00	
Railroad bonds,	19,000 00	
Cash in bank at interest,	17,582 95	
		$154,582 95

SCHOOL LOAN, 1906.

Loan $207,000, 4% bonds, November 1, 1906, 20 years.

RECEIPTS.

Amount on hand at last report,	$49,612 48	
Appropriation of City Council received November 14, 1913,	7,500 00	
Interest on investments,	1,731 60	
Amount carried forward,	$58,844 08	

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Amount brought forward,.....	$58,844 08	
Addition of difference between price paid and par value of bonds bought during the year,.....	180 00	
	$59,024 08	
Accrued interest paid on bonds—charged off,..	31 80	
		$58,992 28

INVESTMENTS.

City of Springfield bonds,.....	$41,000 00	
Railroad bonds,.....	10,000 00	
Cash in bank at interest,.....	7,992 28	
		$58,992 28

STREET, SCHOOL .AND SEWER LOAN, 1907.

Loan $125,000, 4% bonds, November 1, 1907, 10 years.

RECEIPTS.

Amount on hand at last report,.....	$61,926 85	
Appropriation of City Council received November 14, 1913,.....	12,000 00	
Interest on investments,.....	2,347 75	
Addition of difference between price paid and par value of bonds bought during the year,.....	389 00	
	$76,663 60	
Accrued interest paid on bonds—charged off,..	70 69	
		$76,592 91

INVESTMENTS.

City of Springfield bonds,.....	$40,000 00	
Municipal bonds,.....	1,000 00	
Railroad bonds,.....	11,000 00	
Mortgage note,.....	12,000 00	
Cash in bank at interest,.....	12,592 91	
		$76,592 91

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RECAPITULATION.

Surplus balance from Water Department, received December 27, 1912,		$22,798 94
Appropriation of City Council received November 14, 1913,		69,300 00
Interest on investments,		39,122 74
Addition of difference between price paid and par value of bonds bought during the year,		1,606 85
Total revenue,		$132,828 53
Amount on hand at last report,		1,085,186 59
		$1,218,015 12
Accrued interest paid on bonds—charged off,	$886 71	
By payment April 1, 1913, to City Treasurer to meet 4% Water bonds, Nos. 1776 to 1975, issued April 1, 1893,	200,000 00	
		200,886 71
		$1,017,128 41

INVESTED AS FOLLOWS:

City of Springfield bonds,	$570,500 00
Bonds and notes—Municipal,	90,250 00
Railroad bonds,	165,000 00
Street Railway bonds,	59,000 00
Mortgage notes,	39,200 00
Cash in bank at interest,	93,178 41
	$1,017,128 41

Respectfully submitted,

ROBERT O. MORRIS,
A. B. WALLACE,
A. WILLARD DAMON,
Commissioners.

ELIPHALET T. TIFFT,
Treasurer.

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REPORT OF MANAGERS

OF THE

DAVID P. SMITH FUND

FROM APRIL 24, 1912, TO DEC. 31, 1913.

To His Honor, the Mayor, and the City Council:—

In the early spring of 1912 the Union Trust Company, Administrator d. b. n. c. t. a. of the estate of David P. Smith, turned over to the City of Springfield on account of its distributive share in said estate, the sum of Twenty-five Thousand dollars ($25,000) invested in the following securities:—

Cash,..... (from this has been deducted $41.77 accrued interest on the bonds to Feb. 7, 1912.)	$543.00
2 $100 U. S. Government bonds, 4%, due 1925, Nos. 308-309, February, May, August, November,.....	226.50
5 $1,000 Chicago, Rock Island and Pacific bonds, January and July, 6%, due 1917, Nos. 1357 to 1359 and 13560 and 13561,.....	5,400.00
1 $1,000 Chicago, Rock Island and Pacific bond, 4%, due 2002, No. 67220, May and November,	717.50
20 Shares Massachusetts Gas Companies, Certificate No. B30080, 4%, June and December, Pref.,.....	1,910.00
10 Shares Boston & Lowell, Certificate No. A2760, 8%, January and July,.....	2,180.00

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5 Shares Fitchburg Railroad, Certificate No. 47017, 5%, January, April, July, October, Pref.,	$635.00
49 Shares Massachusetts Electric Companies, Certificate No. B23089, 4%, January and July, Pref.,	4,655.00
31 Shares New York Central and Hudson River R. R., Certificate No. A207910, January, April, July, October, 5%, Pref.,	3,348.00
15 Shares Boston & Maine R. R., Nos. B879-C854, 6%,	2,175.00
30 Shares West End Street Railway Companies, Certificate No. 32634, 4%, January and July, Pref.,	3,045.00
1 Share Chicopee Nat'l Bank, Certificate No. 1486, 8%,	165.00
Total,	$25,000.00

In April, 1913, the Union Trust Company, as administrator, turned over to the Fund an additional bequest from the estate of David P. Smith of thirty shares New York, New Haven & Hartford Railroad stock.

The ninth clause of the will of David P. Smith defines the purpose of the bequest and directs by whom the fund thus created shall be administered, reading as follows:—

"Ninth:—I give and bequeath twelve thirtieths of said proceeds to the City of Springfield, to be kept as a perpetual fund, the income of which shall be used for the care of poor, sick children, in memory of my own deceased child, the management of said fund, and the disbursement of the income thereof, to be under the charge of the Judge of Probate for the County

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of Hampden, the Mayor of the City of Springfield, and the City *Marshall* of said City, in their official capacity."

The Judge of Probate for the County of Hampden, designated as one of the managers, declined to serve and the Probate Court appointed in his stead the City Treasurer of the City of Springfield.

The managers of the David P. Smith Fund (as it has been designated) held their first meeting April 24, 1912, and at that and subsequent meetings considered the best methods of distributing the income of the fund in accordance with the provisions of the will. They invited the assistance and cooperation of Miss Emma C. Youngquist, Agent of the Union Relief Association, Mr. Edward I. White, Agent of the Overseers of the Poor, and Mr. Edward A. Hall, Agent of the St. Vincent De Paul Society, in recommending children requiring medical and surgical treatment.

These agents have been of invaluable assistance to the managers, investigating and reporting upon all the cases that have received aid.

The larger number of children, who have been benefited by the fund, have come under the observation and consideration of Miss Youngquist, and she is entitled to much credit for the thorough and conscientious work she has so willingly performed.

From September 7, 1912, to December 31, 1913, the managers approved one hundred and five bills for medical and surgical treatment of ninety-three children, totaling in expenditure $1,169.94.

The income of the fund for that period was $1,866.24, so that there remains a balance of $696.30 on hand.

The securities of the fund, by an arrangement made by the Board of Managers, are kept by the Union Trust Company, who at stated periods pay over the income to the Treasurer of the Board.

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Sick, crippled, and deformed children have already received benefit, and some have been made whole, by the thoughtful generosity of Dr. David P. Smith, known to the older generation of citizens as one of the ablest surgeons and physicians in this county.

The fund is so established that its benefits will continue indefinitely to the children of our City, and the donor well merits the following words of Horace Mann: "To pity distress is but human; to relieve it is Godlike."

JOHN A. DENISON, *Mayor,*
WILLIAM J. QUILTY, *Chief of Police,*
ELIPHALET T. TIFFT, *City Treasurer,*
Managers.

ELIPHALET T. TIFFT,
Secretary and Treasurer.

SPRINGFIELD, MASS., January 5, 1914.

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CITY TREASURER'S REPORT.

CITY OF SPRINGFIELD, MASS.

CITY TREASURER'S OFFICE, December 29, 1913.

To His Honor, the Mayor, and the City Council:—

I have the honor to submit herewith the annual report of the City Treasurer, showing the operation and condition of the City Treasury and Sinking Funds; and presenting other information relative to finances of the City of Springfield for the fiscal year ending November 30, 1913.

The total operations of the City Treasury for the fiscal year 1913 are summarized as follows:—

RECEIPTS.		PAYMENTS.	
Cash receipts from Revenue sources,	$5,735,659.93	Cash payments for Revenue purposes,	$5,759,442.56
Cash receipts from Non - Revenue sources,	1,558,174.86	Cash payments for Non - Revenue purposes,	1,158,162.95
	$7,293,834.79		$6,917,605.51
Cash balance at beginning of period,	1,000,393.98	Cash balance at end of period,	1,376,623.26
	$8,294,228.77		$8,294,228.77

The following statement gives more detail in reference to receipts and payments.

REVENUE CASH RECEIPTS.

Temporary loans in anticipation of taxes,		$1,450,000.00
From City Collector:—		
Taxes of 1910,	85.94	
Taxes of 1911,	10,334.72	
Taxes of 1912,	497,124.14	
Taxes of 1913,	2,235,939.32	
Water Rents and miscellaneous bills,	415,233.04	
Excise Tax, Springfield Street Railway Company,	16,446.00	
Street Watering taxes of 1911,	211.46	
Amount carried forward,		$4,625,374.62

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Amount brought forward,	$4,625,374.62	
Street Watering taxes of 1912,	6,704.98	
Street Watering taxes of 1913,	23,967.01	
Sundry collections of departmental bills,	112,791.50	
From State Treasurer:—		
Corporation tax, balance of 1912,	1,219.35	
Corporation tax, on account of 1913 (public service),	60,214.23	
Corporation tax, on account of 1913 (business),	124,759.29	
Corporation tax, Springfield Street Railway Company,	29,404.26	
National Bank tax, 1913, and balance of 1912,	5,268.64	
Reimbursement of State and Military aid and Soldiers' burials paid in 1912,	13,691.00	
Commissioners of the Sinking Funds, funds to meet Water bonds,	200,000.00	
County Treasurer, dog fund of 1912,	5,238.50	
Licenses, liquor and all others,	155,345.31	
Interest, bank balances, taxes, etc.,	30,375.00	
High Schools' lunch fund, sale of lunches, etc.,	14,265.33	
Police and Watch, fines, etc.,	12,326.13	
Premium on City Bonds, premium on $1,515,000 bonds,	30,890.84	
Water Works, reimbursements for payments made for Little River Water Supply account,	217,575.61	
Auditorium rentals,	7,523.19	
Sale of Belmont Avenue School building,	9,100.00	
Cross Street Widening, from abutters by agreement,	7,500.00	
Page Boulevard, from abutters by agreement	3,630.00	
Sundry sales of land, etc.,	7,504.50	
Sundry departmental receipts,	20,417.25	
Sundry transfers,	10,573.39	
Total Revenue receipts,		$5,735,659.93
Cash on hand November 30, 1912,		222,073.58
		$5,957,733.51

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REVENUE CASH PAYMENTS.

Payments in appropriation and special revenue accounts as per Treasury Warrants Nos. 1 to 94 inclusive,	$5,759,442.56	
Sundry transfers,	15,245.68	
		$5,744,196.88
Transfer to Non-Revenue cash to meet cost of North Main Street Fire Station expenses,		450.00
Cash on hand November 30, 1913,		213,086.63
		$5,957,733.51

NON-REVENUE CASH RECEIPTS.

Dwight and Water Streets, Railroad Underpass Loan (Act of 1913),	$400,000.00	
Westfield Little River Water Loan (Act of 1913),	250,000.00	
Sewer Loan,	50,000.00	
Buckingham School Loan,	220,000.00	
School Loan,	39,500.00	
Municipal Loan,	55,500.00	
High School of Commerce Loan,	500,000.00	
Sale of buildings on High School of Commerce building site,	2,001.82	
Sale of land on North Street Extension,	20,400.00	
Court Square Extension, interest on fund,	917.77	
School House Sumner Avenue, rent, etc.,	392.50	
Municipal Group, sundry receipts,	145.90	
Little River Water Supply, reimbursement for payments made in Water Department,	18,900.00	
Little River Water Supply, sundry receipts,	416.87	
Total Non-Revenue receipts,		$1,558,174.86
Cash on hand November 30, 1912,		778,320.40
		$2,336,495.26

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NON-REVENUE CASH PAYMENTS.

Payments in Non-Revenue accounts as per Treasury Warrants Nos. 1 to 94 inclusive,	$1,158,162.95	
Sundry transfers,	14,795.68	
		$1,172,958.63
Cash on hand November 30, 1913,		1,163,536.63
		$2,336,495.26

AVAILABLE CASH.

Total cash on hand November 30, 1913,	$1,376,623.26	
Unexpended balances in Non-Revenue accounts,	1,163,536.63	
Revenue cash balance,		$213,086.63
Unexpended balances in special revenue accounts,		116,247.71
Unappropriated cash at beginning of fiscal year, 1914,		$96,838.92

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TEMPORARY LOANS MADE IN ANTICIPATION OF TAXES

Mch. 28—	$100,000	due November 7, F. S. Moseley & Co., Boston, discounted at	4.50%
Mch. 28—	50,000	due November 7, Curtis & Sanger, Boston, discounted at	4.45%
Mch. 28—	50,000	due November 7, Estabrook & Co., Boston, discounted at	4.37½%
May 28—	300,000	due November 7, Morgan & Bartlett, New York, discounted at	4.56%
May 28—	150,000	due November 7, R. L. Day & Co., Boston, discounted at	4.56%
July 9—	350,000	due November 11, Morgan & Bartlett, New York, discounted at	4.99%
Aug. 11—	50,000	due November 3, Union Trust Co., City, discounted at	4.90%
Sept. 8—	150,000	due November 3, Old Colony Trust Co., Boston, discounted at	4.50%
Sept. 24—	50,000	due November 3, Union Trust Co., City, discounted at	4.50%
Sept. 29—	50,000	due November 3, Springfield Safe Deposit & Trust Co., City, discounted at	4.50%
Oct. 9—	50,000	due November 3, Third National Bank, City, discounted at	4.50%
Oct. 11—	50,000	due November 11, Union Trust Co., City, discounted at	4.50%
Oct. 14—	50,000	due November 11, Union Trust Co., City, discounted at	4.50%

Total $1,450,000

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STATEMENT OF FUNDED DEBT AND SINKING FUNDS, 1913.

SHOWING DEBT AND SINKING FUNDS AT BEGINNING AND CLOSE OF FISCAL YEAR, AND ALL TRANSACTIONS DURING THAT PERIOD.

	Total Debt.	Division of Total Indebtedness.			Net Debt.	Net Debt Within Limit.	Net Water Debt.	Sinking Funds.	
		Debt Within Limit.	Debt Outside Limit.	Water Debt.				General Sinking Fund.	Water Sinking Fund.
November 30, 1912	$6,886,700.00	$3,031,700.00	$1,472,000.00	$2,383,000.00	$5,801,513.41	$2,173,230.71	$2,156,282.70	$858,469.29	$226,717.30
Bonds paid in 1913	416,200.00	101,200.00	41,000.00	274,000.00	.....	.....	.....	.....	.....
Bonds issued in 1913	1,515,000.00	865,000.00	400,000.00	250,000.00	.....	.....	.....	.....	.....
Surplus in Water Dept., available for Water Sinking Fund	.....	.....	.....	.....	.....	.....	.....	.....	22,798.94
Earnings of Water Sinking Fund	.....	.....	.....	.....	.....	.....	.....	.....	7,917.15
From Commissioners of the Sinking Funds, from Water Sinking Fund	.....	.....	.....	.....	.....	.....	.....	.....	200,000.00
Decrease in Water Sinking Fund	.....	.....	.....	.....	.....	.....	.....	.....	169,283.91
Appropriations for General Sinking Funds	.....	.....	.....	.....	.....	.....	.....	69,300.00	.....
Earnings of General Sinking Funds	.....	.....	.....	.....	.....	.....	.....	31,925.73	.....
Increase in General Sinking Funds	.....	.....	.....	.....	.....	.....	.....	101,225.73	.....
Increase in Total and Net City Debt	1,098,800.00	.....	.....	.....	1,166,858.18	.....	.....	.....	.....
Increase in City Debt, within and outside limit	.....	763,800.00	359,000.00	.....	.....	662,574.27	.....	.....	.....
Decrease in Water Debt	.....	.....	.....	24,000.00	.....	.....	.....	.....	.....
Increase in Net Water Debt	.....	.....	.....	.....	.....	.....	169,283.91	.....	.....
November 30, 1913	7,985,500.00	3,795,500.00	1,831,000.00	2,359,000.00	6,968,371.59	2,835,804.98	2,301,566.61	959,695.02	57,433.39

Outstanding Bonds secured by Sinking Funds, $2,040,000.00.
Outstanding Serial Bonds..... 5,945,500.00.
Total City Debt,..... 7,985,500.00.

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STATEMENT OF THE FUNDED DEBT AND SINKING FUNDS.

LOANS. NAME AND DESCRIPTION.	Date of Issue.	INTEREST. Rate %	INTEREST. Payable.	PRINCIPAL. When Due.	PRINCIPAL. Outstanding.	Sinking Funds.
City Hall Loan, 1907, Reg.	1907	4	J. and J.	July 1, 1908 to July 1, 1927. $9,000 even years, $8,000 odd years.	$119,000 00	
Railroad Underpass Loan, Dwight and Water Streets, Cou.	1913	4	May and N.	$14,000 due Nov. 1, 1914 to Nov. 1, 1923. $13,000 due Nov. 1, 1924 to Nov. 1, 1943.	400,000 00	
Fire Dept. Loan, 1906, Reg.	1906	4	May and N.	Nov. 1, 1907 to Nov. 1, 1916. $4,000 annually..	12,000 00	
Fire and Police Buildings Loan, Reg.	1910	4	A. and O.	Oct. 1, 1911 to Oct. 1, 1930. $17,000 annually..	289,000 00	
Locust Street Extension, Reg.	1911	4	A. and O.	Oct. 1, 1912 to Oct. 1, 1921. $2,000 annually...	16,000 00	
Municipal Building Loan, Cou. or Reg...	1909	3½	May and N.	Nov. 1, 1910 to Nov. 1, 1949. $15,000 annually	540,000 00	
Municipal Building Loan, Cou. or Reg...	1910	4	May and N.	Nov. 1, 1911 to Nov. 1, 1950. $10,000 annually.	370,000 00	
Municipal Building Loan, Cou. or Reg..	1912	4	May and N.	$14,000 due Nov. 1, 1913 to 1917 inc. and $13,000 Nov. 1, 1918 to 1952 inc	511,000 00	
Municipal Loan, Reg.	1913	4¼	May and N.	$6,500 due Nov. 1, 1914 and $6,000 Nov. 1, 1915 to Nov. 1, 1918; $5,000, Nov. 1, 1919 to Nov. 1, 1923.	55,500 00	
North Street Extension, Reg.	1909	4	A. and O.	Oct. 1, 1910 to Oct. 1, 1919. $20,000 annually.	120,000 00	
Public Parks, Reg.	1903	3½	Jne. and D.	June 1, 1923	125,000 00	$66,456 25
Public Buildings Loan, Reg.	1911	4	A. and O.	Oct. 1, 1912 to Oct. 1, 1931. $16,000 annually..	288,000 00	
River Front Loan, Reg.	1908	4	A. and O.	Oct. 1, 1909 to Oct. 1, 1918. $2,000 annually....	10,000 00	
School Bonds, '03, Cou. or Reg.	1903	3½	M. and S.	September 1, 1923	40,000 00	19,892 73
" " Reg.	1895	4	A. and O.	October 1, 1915	35,000 00	33,335 81
" " High "	1897–8	4	J. and J.	January 1, 1917	370,000 00	302,272 23
" " " "	1897	4	J. and J.	July 1, 1898 to 1917. $4,500 annually	18,000 00	
" " " "	1898	3½	J. and J.	July 1, 1899 to 1918. $4,200 annually	21,000 00	
" " Kensington Avenue, 1908 Reg.	1908	4	A. and O.	Oct. 1, 1909 to Oct. 1, 1928. $5,500 annually	82,500 00	
" " Lincoln, Reg.	1909	4	A. and O.	Oct. 1, 1910 to Oct. 1, 1929. $5,000 annually....	80,000 00	
" " Reg.	1898	3½	J. and J.	July 1, 1899 to 1918. $4,500 annually.	22,500 00	
" " 1900 "	1900	3½	Jne. and D.	December 1, 1919	20,000 00	91,649 62
" " 1900, Cou. or "	1900	3	Jne. and D.	June 1, 1920	125,000 00	
" " 1901 "	1901	3½	Mch. and S.	September 1, 1921	125,000 00	73,772 11
" " 1902 "	1902	3½	A. and O.	October 1, 1922	55,000 00	28,438 21
" Technical High "	1905–6	3½	J. and J.	January 1, 1925	342,000 00	154,582 95
" White Street "	1905	3½	J. and J.	January 1, 1925	54,000 00	
School Loan, 1906, Cou. or Reg.	1906	4	May and N.	November 1, 1926	207,000 00	58,992 28
School Bonds, Commercial High, Cou...	1913	4	May and N.	$25,000 due Nov. 1, 1913 to Nov. 1, 1914	500,000 00	
School, Buckingham, Reg.	1913	4¼	May and N.	$11,000 due Nov. 1, 1914 to Nov. 1, 1933	220,000 00	
School, Reg.	1913	4¼	May and N.	$2,000 due Nov. 1, 1914 to 1932, and $1,500 Nov. 1, 1933	39,500 00	
Sewer Bonds, Cou. or Reg.	1900	3	Jne. and D.	June 1, 1930	142,000 00	53,709 92
" " 1901, Reg	1901	3½	Mch. and S.	Sept. 1, 1902 to 1926. $1,000 annually.	13,000 00	
Sewer Loan, 1904 "	1904	3½	F. and A.	Aug. 1, 1905 to 1924. $2,000 annually.	22,000 00	
Sewer Loan, 1908 "	1908	4	A. and O.	Oct. 1, 1909 to Oct. 1, 1928. $2,500 annually...	37,500 00	
Sewer. Loan, Reg.	1913	4	May and N.	$2,000 due Nov. 1, 1914 to Nov. 1, 1938.	50,000 00	
Street, School and Sewer Loan, 1907, Reg.	1908	4	May and N.	November 1, 1917	125,000 00	76,592 91
Water Street Extension and Rifle Range, 1908, Reg.	1908	4	A. and O.	Oct. 1, 1909 to Oct. 1, 1918. $5,000 annually....	25,000 00	
Water Bonds. Coupon	1890	3½	A. and O.	October 1, 1920	125,000 00	57,433 39
" " "	1893	4	A. and O.	October 1, 1923	150,000 00	
" " Little River, Cou. or Reg..	1907	4	J. and J.	Jan. 1, 1910 to Jan. 1, 1936. $10,000 annually..	230,000 00	
" " Little River, Cou. or Reg..	1908	4	J. and J.	Jan. 1, 1911 to Jan. 1, 1937. $10,000 annually..	240,000 00	
" " Little River, Cou. or Reg..	1909	3½	J. and J.	Jan. 1, 1912 to Jan. 1, 1938. $40,000 annually..	1,000,000 00	
" " Little River, Cou. or Reg..	1910	3½	J. and J.	Jan. 1, 1913 to Jan. 1, 1939. $14,000 annually..	364,000 00	
" " Little River, Cou. or Reg..	1913	4¼	May and N.	$10,000 due Nov. 1, 1914 to Nov. 1, 1938	250,000 00	
Totals					$7,985,500 00	$1,017,128 41

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PURPOSES FOR WHICH OUTSTANDING FUNDED DEBT WAS CREATED.

Water Works (exempt),			$2,359,000.00
Schoolhouses:—			
Central High,	$370,000.00		
Technical High,	346,500.00		
High School of Commerce,	500,000.00		
Other Schools,	1,258,600.00		
		$2,475,100.00	
Abbe avenue overhead pass,		62,000.00	
Dwight and Water streets railroad underpasses (exempt),		400,000.00	
Fire department buildings,		117,100.00	
Fire and Police headquarters,		289,000.00	
Isolation Hospital,		16,200.00	
Locust street extension,		16,000.00	
Laundry and heating plant, Almshouse,		44,000.00	
Municipal heating plant,		70,200.00	
Municipal group, buildings (exempt),		1,421,000.00	
Municipal group, land,		119,000.00	
North street extension,		120,000.00	
Parks and buildings,		157,400.00	
Rifle range,		5,000.00	
River front (exempt),		10,000.00	
Sewers,		284,500.00	
Water street extension,		20,000.00	
Debt exclusive of water debt,			5,626,500.00
Total debt,			$7,985,500.00

The above bonded debt is issued at the following rates of interest:—

$267,000.00 at 3 per cent. per annum.
2,868,500.00 at 3½ per cent. per annum.
4,285,000.00 at 4 per cent per annum.
565,000.00 at 4¼ per cent. per annum.

Total.. $7,985,500.00 at an average interest rate of 3.80 per cent. per annum.

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AMOUNT OF DEBT CITY CAN INCUR, WITHIN STATUTORY LIMIT.

2½ per cent. of average valuation for three preceding years,		$3,739,600.00
Present net bonded debt after deducting exempted debts, water debts, and general sinking funds,		2,835,805.00
Debt city can incur in 1914,		$903,795.00
Debt that the city is obligated to incur in 1914:—		
High School of Commerce,	$500,000.00	
Completion of Dwight and Water streets underpasses,	150,000.00	
		650,000.00
New bonded debt that can be incurred in 1914,		$253,795.00

The Funded Debt maturing in 1914 totals $287,700. Of this amount $84,000 is Water Debt, which will be paid by receipts of the Water Department. Serial bonds for other purposes fall due to the amount of $203,700, and will be appropriated for and paid from the tax levy.

Respectfully submitted,

ELIPHALET T. TIFFT,
City Treasurer.

I hereby certify that I have examined, in detail, the foregoing abstracts from the accounts of the City Treasurer; that the receipts from various sources, as stated, are correct; that all expenditures are supported by warrants regularly approved by the proper officials, and that the condition of various accounts—including cash on hand and in banks—on November 30, 1913, has been verified by comparison with the records of this office.

WILLIAM G. McINTYRE,
City Auditor.

SPRINGFIELD, MASS., December 26, 1913.

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CITY OF SPRINGFIELD

ORDINANCES OF 1913

CHAPTER I.

AN ORDINANCE

ESTABLISHING THE TERM OF OFFICE OF THE SCHOOLHOUSE AGENT.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. Section Seven of Chapter Twenty of the Revised Ordinances of the City of Springfield relating to the schoolhouse agent is hereby amended by striking out the whole of said section and substituting therefor the following:

SECTION 7. On the first Monday of February in the year 1913 or within sixty days from said first Monday and every third year thereafter a schoolhouse agent shall be elected by the city council in convention, who shall on behalf of the city have charge and control of the schoolhouses in the city, and of the property contained in and connected with the same, subject, however, to the direction of the school committee in respect to their use and occupation.

SECTION 2. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Approved January 21, 1913.

Attest: E. A. NEWELL, *City Clerk.*

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CHAPTER II.

AN ORDINANCE

ESTABLISHING THE OFFICE OF SUPERINTENDENT OF THE MUNICIPAL GROUP.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. There shall be elected on the first Monday of February, or within sixty days thereafter in the year 1913, and in like manner every third year thereafter, by concurrent vote of the two branches of the city council, a Superintendent of the Municipal Group, who shall hold his office for three years from the first Monday in April of the year in which he is chosen, and until another is chosen and qualified in his stead, unless sooner removed by the vote of the city council.

SECTION 2. Said Superintendent shall cause to be delivered and executed, either by himself or an assistant, and due return made thereof, all notifications, summonses and precepts, the service of which is not otherwise provided for, issued by the mayor, the president of the common council, the city council or either branch thereof, or by any committee of the same. He shall by himself or an assistant notify all committees of their meetings, upon request of the city clerk, clerk of the common council, or the chairman of such committee. He or an assistant shall receive and deliver all notifications to officers elected or appointed by the city council, or either branch thereof, and to all officers elected at ward meetings, except as otherwise provided by law or ordinance.

SECTION 3. He shall cause the rooms to be prepared and arranged in which the city council shall hold their sessions, or in which any committee of either branch shall hold its meetings, and see that the same are properly and seasonably warmed and lighted. He or an assistant shall attend upon both branches of the city council while in session, and upon either branch when in session separately, and, under direction of the proper committee or officers, provide such things as may be necessary for their

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accommodation, or for the accommodation of committees while in session.

SECTION 4. Chapter 14 of the Revised Ordinances and all other ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Approved January 29, 1913.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER III.

AN ORDINANCE

RELATING TO THE APPOINTMENT AND DUTIES OF THE CITY PROSECUTING ATTORNEY.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. During the month of January in each year the Mayor shall appoint a City Prosecuting Attorney. The person so appointed shall be a resident of the City of Springfield and shall be an admitted attorney and counsellor of the Courts of the Commonwealth of Massachusetts. The City Prosecuting Attorney shall, when requested so to do by the Mayor, the Police Commission, or the Chief of Police, prepare criminal cases in the Police Court of Springfield for trial, and shall, when so requested, prosecute all criminal cases in the Police Court of Springfield, and he shall at all times advise the Chief of Police as to all matters relating to the detection of crime or to the prosecution of criminal cases. He shall at the request of the Mayor assist in discharging the duties devolving upon the law department of the City of Springfield. He shall receive as full compensation for his services such salary as the City Council may, from time to time, determine.

SECTION 2. The City Prosecuting Attorney may be removed at any time for cause by the Mayor.

SECTION 3. Section Eight of Chapter Fifteen of the Ordinances

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of 1908 and all other ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Approved February 11, 1913.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER IV.

AN ORDINANCE

ESTABLISHING THE COMPENSATION OF THE BUILDING COMMISSIONER.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The compensation of the Building Commissioner is hereby established at Three Thousand Five Hundred Dollars per annum.

SECTION 2. Chapter twenty-one of the Ordinances of 1910 and all other ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Approved February 11, 1913.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER V.

AN ORDINANCE

ESTABLISHING SALARIES OF DEPUTIES IN THE DEPARTMENT OF STREETS AND ENGINEERING.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The following salaries are hereby established for Deputies in the Department of Streets and Engineering:

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Deputy City Engineer, Two Thousand Five Hundred Dollars per annum.

Deputy Superintendent of Streets, Two Thousand Five Hundred Dollars per annum.

Deputy Superintendent of Sewers, Two Thousand Dollars per annum.

Deputy Superintendent of Ashes, Garbage and Rubbish Collection, Eighteen Hundred Dollars per annum.

Deputy City Forester, Seven Hundred and Fifty Dollars per annum.

SECTION 2. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Approved March 25, 1913.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER VI.

AN ORDINANCE

ESTABLISHING THE SALARY OF THE SUPERINTENDENT OF THE MUNICIPAL GROUP.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The salary of the Superintendent of the Municipal Group is hereby established at Two thousand dollars per annum.

SECTION 2. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Approved March 25, 1913.

Attest: E. A. NEWELL, *City Clerk.*

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CHAPTER VII.

AN ORDINANCE

RELATING TO THE ADVERTISING OF CERTAIN PETITIONS OR REQUESTS WHICH REQUIRE OR PROVIDE FOR PUBLICATION OR ADVERTISING IN NEWSPAPERS.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. All petitions for hearings or other requests or petitions which require or provide for publication or advertising in newspapers shall be advertised at the expense of the petitioner unless otherwise ordered by order or otherwise.

SECTION 2. Chapter 16 of the Ordinances of 1912 and all other ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Approved March 25, 1913.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER VIII.

AN ORDINANCE

ESTABLISHING THE SALARY OF THE DEPUTY SUPERINTENDENT OF STREET LIGHTING.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The salary of the Deputy Superintendent of Street Lighting is hereby established at One Thousand Five Hundred Dollars per annum.

SECTION 2. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Approved April 15, 1913.

Attest: E. A. NEWELL, *City Clerk.*

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CHAPTER IX.

AN ORDINANCE

RELATING TO THE COLLECTION OF ASHES, GARBAGE AND RUBBISH.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The Mayor and Aldermen may, upon recommendation of the Superintendent of Streets and Engineering, license persons to remove garbage, ashes and all refuse substances, subject to the provisions of the City Ordinances and to the rules of the Board of Health.

SECTION 2. No person, except city employes in the prosecution of their employment, not licensed as herein provided, shall remove or transport through any street or passageway in the city, within the district in which swine are not allowed to be kept, ashes, garbage or rubbish, except that any person may use upon his own premises any or all of said substances, created or accumulating thereon, provided he shall not create a nuisance thereby; no person shall transport such substances through any such street or passageway, except in such manner, at such times, and in such vessels or vehicles as the Superintendent of Streets and Engineering shall approve.

SECTION 3. Any person violating any of the provisions of this ordinance shall be punished by a fine of not less than two nor more than twenty dollars, and by a forfeiture of his license if the person so violating be licensed under the provisions hereof.

SECTION 4. Section 1 of Chapter 10 of the Ordinances of 1909 and all ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Approved April 22, 1913.

Attest: E. A. NEWELL, *City Clerk.*

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CHAPTER X.

AN ORDINANCE

RELATING TO GRADES AND COMPENSATION OF MEMBERS OF THE POLICE FORCE OF THE CITY OF SPRINGFIELD.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. Grades A, B and C of patrolmen, based upon their faithful, efficient and meritorious performance of duty, are hereby established. So soon as may be hereafter, the chief of police acting with the approval of the police commission shall assign each patrolman to membership in one of such grades upon the aforesaid basis. Promotions may be made from time to time by the chief of police with the approval of the police commission.

SECTION 2. The chief of police may suspend from duty for cause, upon written charges specifically stated, any member or employe of the department, provided, that whenever he shall so suspend any such member or employe he shall forthwith report the fact and the specific cause thereof to the police commission in writing. Such commission shall forthwith proceed to investigate said charges and within two weeks shall render its decision and, if charges are sustained, impose a penalty. They may penalize such member or employe of the department by reprimand, the performance of extra duty without pay, fine, suspension with or without loss of pay, reduction in rank or dismissal.

In construing this section, the words "for cause" may be construed to mean "inefficiency" or "incapacity."

SECTION 3. The commission shall have the power to examine into absences from duty of members and employes of the department other than those allowed by law or ordinance and may approve or disapprove the payment of salary to them for the time of such absences.

SECTION 4. The grade and rank of members of the department shall be as follows: Chief; Deputy Chief; Chief Inspector; Captain; Inspector; Lieutenant; Sergeant; Patrolman; and Reserveman.

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SECTION 5. The annual compensation or wages of the members and employes of the police department shall be as follows:

Chief of Police	$2,500 per year
Deputy Chief of Police	1,800 per year
Chief Inspector	1,800 per year
Captain	1,600 per year
Inspector	1,400 per year
Lieutenant	1,400 per year
Sergeant	1,300 per year
Patrolman—Grade A	3.25 per day
Patrolman—Grade B	3.00 per day
Patrolman—Grade C	2.75 per day
Reserves	2.50 per day

SECTION 6. So much of this ordinance as relates to compensation of members of the Police Force shall take effect June 1, 1913.

SECTION 7. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Approved May 5, 1913.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER XI.

AN ORDINANCE

ESTABLISHING THE SALARIES OF THE CITY TREASURER, CITY CLERK, AUDITOR OF ACCOUNTS, CITY COLLECTOR, BOARD OF ASSESSORS, HEALTH PHYSICIAN, SCHOOL HOUSE AGENT, CHIEF ENGINEER OF THE FIRE DEPARTMENT, AND CHIEF OF POLICE.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The salaries of the City Treasurer, City Clerk, Auditor of Accounts, City Collector, Board of Assessors, Health

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Physician, School House Agent, Chief Engineer of the Fire Department, and Chief of Police are hereby established as follows:

City Treasurer, Three Thousand and Five Hundred Dollars per annum, with the additional sum of Three Hundred Dollars per annum for services as treasurer of the sinking fund.

City Clerk, Three Thousand Dollars per annum with the additional sum of Three Hundred Dollars per annum as clerk of the Board of Registrars of Voters.

Auditor of Accounts, Three Thousand Dollars per annum.

City Collector, Three Thousand and Two Hundred Dollars per annum.

Board of Assessors, Two Thousand and Four Hundred Dollars each per annum.

Health Physician, One Thousand and Eight Hundred Dollars per annum.

School House Agent, Two Thousand and Four Hundred Dollars per annum.

Chief Engineer of the Fire Department, Three Thousand Dollars per annum.

Chief of Police, Three Thousand Dollars per annum.

SECTION 2. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

SECTION 3. This ordinance shall take effect June 1, 1913.

Approved May 27, 1913.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER XII.

AN ORDINANCE

ESTABLISHING THE SALARY OF THE CLERK OF THE COMMON COUNCIL.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The salary of the Clerk of the Common Council is hereby established at Five Hundred Dollars per annum.

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SECTION 2. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

SECTION 3. This ordinance shall take effect July 1, 1913.

Approved June 10, 1913.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER XIII.

AN ORDINANCE

RELATING TO THE USE OF THE WOODEN BRIDGE OVER THE CONNECTICUT RIVER BETWEEN SPRINGFIELD AND WEST SPRINGFIELD, KNOWN AS THE OLD TOLL BRIDGE.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. No person shall drive or cause to be driven or propelled upon the wooden bridge over the Connecticut river between Springfield and West Springfield, commonly known as the Old Toll Bridge, any wagon or other vehicle which shall weigh, together with any load or burden that may at the time be supported thereby, over four tons.

SECTION 2. Any person who shall violate any provision of this ordinance shall be punished by a fine not exceeding Twenty Dollars.

SECTION 3. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Approved July 22, 1913.

Attest: E. A. NEWELL, *City Clerk.*

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CHAPTER XIV.

AN ORDINANCE

AMENDING SECTION 48 OF CHAPTER 37 OF THE REVISED ORDINANCES, ENTITLED "AN ORDINANCE RELATING TO THE PREVENTION OF INJURIOUS PRACTICES IN THE STREETS."

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. Section 48 of Chapter 37 of the Revised Ordinances of the City of Springfield, entitled "An Ordinance for the Prevention of Injurious Practices in the Streets," is hereby amended by striking out of the first paragraph of said section the word "afternoon" and substituting therefor the word "evening," and by striking out of the second paragraph of said section the words, "three blows," and substituting therefor the words "one blow," so that said section 48 amended shall read as follows:

SECTION 48. No child under sixteen years of age, shall be, loiter, or remain upon any street, highway, park or other public way or place, in the city, after the hour of nine thirty o'clock in the evening of any day, unless accompanied by or under the control or care of a parent, guardian, or other adult person; or unless in some employment, or in the performance of some duty directed in writing by said parent, guardian, or other adult person; and no such child, while in such employment or performance of such duty, shall loiter upon any such street, highway, park or other public way or place.

The chief engineer of the fire department shall cause one blow to be sounded on the fire alarm signals at nine thirty o'clock each evening.

SECTION 2. All ordinances and parts of ordinances inconsistent herewith are hereby repealed.

Approved September 16, 1913.

Attest: E. A. NEWELL, *City Clerk.*

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CHAPTER XV.

AN ORDINANCE

CHANGING THE NAME "AUDITOR OF ACCOUNTS" TO "CITY AUDITOR."

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. All ordinances or parts of ordinances of the City of Springfield in which the words "Auditor of Accounts" occur are hereby amended by striking out said words and substituting therefor the words "City Auditor," so that the official title of said officer shall be "City Auditor."

SECTION 2. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Approved September 30, 1913.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER XVI.

AN ORDINANCE

CREATING A CITY PLANNING COMMISSION.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. A city planning commission to consist of the Mayor, the President of the Board of Aldermen and the President of the Common Council, all of whom shall be members thereof ex officio, and of five citizens of the City of Springfield, who shall be appointed by the Mayor subject to confirmation by the Board of Aldermen, is hereby created. As soon after the passage hereof as is practical, the Mayor shall appoint five citizens as members of such commission to hold office for the terms of one, two, three, four and five years respectively, from the first day of October, 1913.

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Hereafter in the month of September in each year the Mayor shall appoint a citizen as a member of such commission to hold office for five years from the first day of October therein, subject to confirmation by the Board of Aldermen.

Vacancies occurring in the commission shall be filled by appointment by the Mayor, subject to confirmation by the Board of Aldermen, to fill any unexpired terms.

SECTION 2. The members of such commission shall serve without pay. Such commission may make rules for the conduct of its business, choose its officers and hold such hearings as it may deem proper and necessary. It may expend such sums of money for expert and clerical assistance and other purposes as the City Council may authorize from time to time. It may require any officer, department, board or commission of the city to furnish it with such information, records, reports, plans, data and statistics within his or its knowledge as will aid such planning commission in the performance of its duties.

SECTION 3. It shall be the duty of such commission, so far as laws or ordinances do not vest other officers, boards or commissions with the right, or impose upon them the duties, to plan a comprehensive scheme for the alteration, construction and development of the city's works and buildings, either in reference to the whole city or any section thereof, and in so doing it shall be guided by considerations of public safety, health, utility, convenience, beauty and the future needs of the city; it shall consider and recommend the location, use, nature and character of all public buildings to be hereafter altered or erected, concerning which the advice of such commission may be sought; it shall plan for the development of schools as social centers and the improvement and development of playgrounds; it shall plan for and recommend the location, extent, width, grades, character, nature, decorations, tree plantings and uses which the city may make, of all streets, boulevards, open spaces, terraces, parks, squares, playgrounds, bridges, docks, waterways and of all public works of like nature; it shall plan for and recommend the locations and privileges which may be granted to or exercised by corporations or individuals in the use by them of any streets, waterways, or property of the city

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or of spaces therein under its control or which it is bound to keep in repair; it shall plan for and recommend the establishment of such building lines as it may deem proper; and it shall plan for and recommend to the city in any other matter affecting the city's interest when it may be requested so to do by the City Council or either branch thereof, or when in the judgment of the commission it may be wise and proper so to do.

SECTION 4. It shall further be the duty of such commission to make careful studies of the resources, possibilities and needs of the City of Springfield with respect to conditions which may be injurious to public health, or otherwise injurious in and about rented dwellings, and to make plans for the development of the municipality with special reference to the proper housing of its people.

SECTION 5. Such commission shall make and keep on file such reports, maps, plans, or models as shall illustrate its plans and recommendations. During the month of December in each year after 1913, it shall make a report of its doings, plans and recommendations to the City Council; and it may make a report of its plans and recommendations to the City Council, or to either branch thereof at such other times as it may see fit or as it shall otherwise be required so to do.

Approved October 6, 1913.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER XVII.

AN ORDINANCE

ESTABLISHING THE COMPENSATION OF POLICE OFFICERS OTHER THAN REGULAR AND RESERVE OFFICERS WHEN DOING DUTY FOR THE CITY OF SPRINGFIELD.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. Police officers, other than regular or reserve officers, when doing duty for the City of Springfield, shall receive

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the same compensation for their services as that paid to reserve officers doing similar duty.

SECTION 2. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Approved October 6, 1913.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER XVIII.

AN ORDINANCE

RELATIVE TO A TAX LIMIT FOR THE CITY OF SPRINGFIELD.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. Taxes hereafter assessed on property within the City of Springfield, exclusive of the state tax and other amounts assessed upon the City by the Commonwealth, the county tax and sums required by law to be raised on account of the city debt, shall not in any year exceed Seventeen dollars on every One Thousand dollars of the average of the Assessors' valuation of the taxable property therein for the preceding three years, such valuation being first reduced by the amount of all abatements allowed thereon previous to the thirty-first day of December in the year preceding said assessment.

Approved October 27, 1913.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER XIX.

AN ORDINANCE

CHANGING THE TITLE OF THE ENGINEERS OF THE FIRE DEPARTMENT AND ESTABLISHING THEIR SALARIES.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. Upon the passage of this ordinance there shall be

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established the offices of Chief, Deputy Chief and two District Chiefs of the Fire Department of the City of Springfield.

SECTION 2. The salary of the Deputy Chief is hereby established at Two Thousand Four Hundred dollars per annum and the salaries of the two District Chiefs at One Thousand Eight Hundred dollars each per annum, to take effect December 1, 1913.

SECTION 3. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Approved October 27, 1913.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER XX.

AN ORDINANCE

ESTABLISHING THE SALARY OF THE SUPERINTENDENT OF FIRE ALARM FOR THE CARE AND SUPERVISION OF THE POLICE SIGNAL TELEGRAPH SYSTEM.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The salary of the Superintendent of Fire Alarm for the care and supervision of the rooms, apparatus, machinery and fixtures of the police signal telegraph system is hereby established at Five Hundred Dollars per annum, to be charged to the account of the Police Commission.

SECTION 2. This ordinance shall take effect January 1, 1914.

SECTION 3. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Approved December 5, 1913.

Attest: E. A. NEWELL, *City Clerk.*

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CHAPTER XXI.

AN ORDINANCE

ESTABLISHING THE PAY OF CAPTAINS IN THE FIRE DEPARTMENT.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The pay of Captains in the Fire Department now receiving Three dollars and fifty cents per day is hereby established at One thousand, six hundred dollars per year.

SECTION 2. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

SECTION 3. This ordinance shall take effect January 1, 1914.

Approved December 11, 1913.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER XXII.

AN ORDINANCE

ESTABLISHING THE PAY OF ENGINEERS IN THE FIRE DEPARTMENT.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The pay of Engineers in the Fire Department now receiving Three dollars and twenty cents per day (Grade A);

Three dollars per day (Grade B); and

Two dollars and seventy-five cents per day (Grade C); is hereby established as follows:

Three dollars and fifty cents per day (Grade A);

Three dollars and twenty-five cents per day (Grade B);

Three dollars per day (Grade C).

SECTION 2. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

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SECTION 3. This ordinance shall take effect January 1, 1914.
Approved December 11, 1913.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER XXIII.

AN ORDINANCE

ESTABLISHING THE PAY OF LIEUTENANTS IN THE FIRE DEPARTMENT.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The pay of Lieutenants in the Fire Department now receiving Three dollars and twenty-five cents per day is hereby established at One thousand, four hundred dollars per year.

SECTION 2. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

SECTION 3. This ordinance shall take effect January 1, 1914.
Approved December 11, 1913.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER XXIV.

AN ORDINANCE

ESTABLISHING THE PAY OF PRIVATES IN THE FIRE DEPARTMENT.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The pay of privates in the Fire Department now receiving Three dollars per day (Grade A);

Two dollars and seventy-five cents per day (Grade B); and

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Two dollars and fifty cents per day (Grade C); is hereby established as follows:

Three dollars and twenty-five cents per day (Grade A);

Three dollars per day (Grade B);

Two dollars and seventy-five cents per day (Grade C).

SECTION 2. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

SECTION 3. This ordinance shall take effect January 1, 1914.

Approved December 11, 1913.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER XXV.

AN ORDINANCE

ESTABLISHING THE SALARY OF THE CITY SOLICITOR.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The salary of the City Solicitor is hereby established at Three thousand five hundred dollars a year.

SECTION 2. This ordinance shall take effect January 1, 1914.

SECTION 3. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Approved December 16, 1913.

Attest: E. A. NEWELL, *City Clerk.*

ORDERED, That no person shall allow or permit a horse-drawn or motor vehicle in his charge or control to remain standing upon Court street between Main street and Water street and upon Water street between State street and Vernon street except within eighteen inches of the curbing therein.

No person shall allow or permit a horse-drawn or motor vehicle in his charge or control to remain standing on Court street within

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one hundred feet from its intersection with Main street, within two hundred feet from its intersection with Water street, nor upon Water street within twenty feet of its intersection with Court street.

Whoever violates any provision of these rules shall be punished by a fine of not less than one dollar and not more than twenty dollars.

All rules of the road or parts of rules of the road inconsistent herewith are hereby repealed.

A true copy of an order passed by the Board of Aldermen March 31, 1913, and approved by the Mayor April 1, 1913.

Attest: E. A. NEWELL, *City Clerk.*

ORDERED, That in Wards Four, Seven and Eight of the City of Springfield as established by an ordinance approved April 29, 1895, and later by Chapter 2 of the Revised Ordinances, a new division of said wards into voting precincts be and is hereby made and said precincts are established as follows:

WARD FOUR, PRECINCT A.—Beginning at the center line of Armory street and the Boston & Albany railroad, thence westerly along said railroad to the center line of Spring street, thence southerly along the center line of Spring street to the center line of State street, thence easterly along the center line of State street to the center line of Federal street, thence northerly along the center line of Federal street to the center line of Summer street, thence easterly along the center line of Summer street to the center line of Armory street, thence northerly along the center line of Armory street to the Boston & Albany railroad.

WARD FOUR, PRECINCT B.—Beginning at the center line of Spring street and the Boston & Albany railroad, thence westerly along said railroad to the center line of Chestnut street, thence along the center line of Chestnut street to the center line of State street, thence along the center line of State street to the center line of Spring street, thence along the center line of Spring street to the Boston & Albany railroad.

WARD FOUR, PRECINCT C.—Beginning at the center line of

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State street at the center line of Maple street, thence along the center line of State street to the center line of Walnut street, thence along the center line of Walnut street to the center line of Walnut court, thence westerly through the center line of Walnut court extended through the center of Cemetery avenue to Maple street, thence northerly through the center line of Maple street to the center line of State street.

WARD FOUR, PRECINCT D.—Beginning at the center line of Maple street at the center line of Pine street, thence along the center line of Maple street to the center line of Cemetery avenue, thence along the center line of Cemetery avenue extended through the center line of Walnut court to the center line of Walnut street, thence along the center line of Walnut street to the center line of King street, thence along the center line of King street to the center line of Hancock street, thence along the center line of Hancock street to the center line of Ashley street, thence along the center line of Ashley street to the center line of Cedar street, thence along the center line of Cedar street to the center line of Pine street, thence along the center line of Pine street to the center line of Maple street.

WARD SEVEN, PRECINCT A.—Beginning at the junction of Hickory street and the Highland division of the New York, New Haven & Hartford railroad, thence along the center line of Hickory street to the center line of Hancock street, thence along the center line of Hancock street to the center line of King street, thence along the center line of King street to the crossing of the Highland division of the New York, New Haven & Hartford railroad, thence along the Highland division of the New York, New Haven & Hartford railroad to the center line of Hickory street.

WARD SEVEN, PRECINCT B.—Beginning at the junction of Hickory street and Walnut street, thence along the center line of Hickory street to the center line of Hancock street, thence along the center line of Hancock street to the center line of Ashley street, thence along the center line of Ashley street to the center line of Cedar street, thence along the center line of Cedar street to the center line of Pine street, thence along the center line of Pine street to the center line of Mill street, thence along the center

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line of Mill street to the center line of Belmont avenue, thence along the center line of Belmont avenue to the center line of Oakland street, thence along the center line of Oakland street to the center line of Allen street, thence along the center line of Allen street to the center line of Mill street, thence along the center line of Mill street to the center line of Hickory street at the junction of Walnut street.

WARD SEVEN, PRECINCT C.—Beginning at the junction of the northerly boundary line of the town of Longmeadow and the easterly bank of the Connecticut river, thence northerly along the easterly bank of said river to Main street, thence along the southerly boundary of Ward six through Main street and Mill street to Locust street and Belmont avenue, thence through the center line of Belmont avenue to Forest street, thence through the center line of Forest street and through the center line of Forest Park avenue extended to the northerly line of the town of Longmeadow, thence along the boundary line of Longmeadow to the bank of the Connecticut river.

WARD SEVEN, PRECINCT D.—Beginning in the center line of White street at the northern boundary line of the town of East Longmeadow, thence through the center line of White street to the center line of Belmont avenue, thence through the center line of Belmont avenue to the center line of Forest street, thence through the center line of Forest street and the center line of Forest Park avenue extended southerly to the northerly line of the town of Longmeadow, thence along the boundary line of Longmeadow and East Longmeadow to the center line of White street.

WARD SEVEN, PRECINCT E.—Beginning at the line of the Highland division of the New York, New Haven & Hartford railroad and the northerly boundary line of the town of East Longmeadow, thence along the line of said railroad to the center line of Sumner avenue, thence along the center line of Sumner avenue to the center line of White street, thence along the center line of White street to the center line of Gordon street, thence along the center line of Gordon street to the center line of Pasadena avenue, thence along the center line of Pasadena avenue to the center line of Johnson street, thence along the center line of Johnson street

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to the center line of Dickinson street, thence along the center line of Dickinson street to the center line of Oakland street, thence along the center line of Oakland street to the center line of Belmont avenue, thence along the center line of Belmont avenue to the center line of White street, thence along the center line of White street to the northerly boundary of the town of East Longmeadow, thence along the northerly boundary of the town of East Longmeadow to the line of the Highland division of the New York, New Haven & Hartford railroad.

WARD SEVEN, PRECINCT F.—Beginning at the center line of Hickory street at the junction of the Highland division of the New York, New Haven & Hartford railroad, thence along said railroad to the center line of Sumner avenue, thence along the center line of Sumner avenue to the center line of White street, thence along the center line of White street to the center line of Gordon street, thence along the center line of Gordon street to the center line of Pasadena avenue, thence along the center line of Pasadena avenue to the center line of Johnson street, thence along the center line of Johnson street to the center line of Dickinson street, thence along the center line of Dickinson street to the center line of Oakland street, thence along the center line of Oakland street to the center line of Allen street, thence along the center line of Allen street to the center line of Mill street, thence along the center line of Mill street to the center line of Hickory street at the junction of Walnut street, thence along the center line of Hickory street to the Highland division of the New York, New Haven & Hartford railroad.

WARD EIGHT, PRECINCT A.—Beginning at the westerly line of Ward Eight at the junction of Bay street and Catharine street, thence through Dartmouth street to Yale street, thence through the center line of Yale street to Harvard street, thence through the center line of Harvard street extended to the Boston & Albany railroad, thence along said railroad westerly to the center line of Armory street, thence northerly through the center line of Armory street to Liberty street, thence northerly through the center line of Liberty street to the center line of Chicopee road, thence along the center line of Chicopee road to the boundary line of the City of Chicopee, thence easterly along said boundary line to Rumrill

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road, thence southerly through said Rumrill road to Bay street, thence westerly along the center line of Bay street to Catharine street.

WARD EIGHT, PRECINCT B.—Beginning at the junction of State street and Andrew street, thence northerly through the center line of Andrew street and Dawes street to the center line of Bay street, thence easterly through the center line of Bay street to the center line of Berkshire avenue, thence westerly through the center line of Berkshire avenue and State street to the center line of Andrew street.

WARD EIGHT, PRECINCT C.—Beginning at the junction of Eastern avenue and Wilbraham road at Winchester square, thence easterly through Wilbraham road to the center line of Breck road, thence northerly through the center line of Breck road to the center line of Boston road, thence westerly in the center line of Boston road to Ralph street, thence through the center line of Ralph street to Berkshire avenue, thence westerly through the center line of Berkshire avenue and State street to the center line of Andrew street, thence northerly through the center line of Andrew street and Dawes street to the center line of Bay street, thence westerly through the center line of Bay street to the center line of Catharine street, thence southerly through the center line of Catharine street across State street to the junction of Wilbraham road and Eastern avenue.

WARD EIGHT, PRECINCT D.—Beginning at the junction of Eastern avenue and Wilbraham road at Winchester square, thence easterly along the center line of Wilbraham road to the center line of Breck road, thence southerly in a straight line extended to the boundary line of the town of East Longmeadow, thence westerly along said boundary line to the line of the Highland division of the New York, New Haven & Hartford railroad, thence along the line of said railroad northerly to King street, thence westerly through the center line of King street to the center line of Eastern avenue, thence northerly through the center line of Eastern avenue to the center line of Wilbraham road at Winchester square.

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WARD EIGHT, PRECINCT E.—All that part of Ward Eight lying easterly of Precincts A, B, C and D.

A true copy of an order passed by the Board of Aldermen and approved by the Mayor March 18, 1913.

Attest: E. A. NEWELL, *City Clerk.*

June 4, 1913.

Ordered that the following rules and regulations relating to the rates of interest that may be charged by pawnbrokers are hereby established:

On a loan of one dollar or less, five cents for the first week and two cents for each week after the first; on a loan of over one dollar, to and including three dollars four per cent. for the first week and two and one-half per cent. for each week after the first; on a loan of over three dollars, to and including ten dollars, three per cent. for the first week and two per cent. for each week after the first; on a loan of over ten dollars, to and including twenty-five dollars, one per cent. a week; on a loan of over twenty-five dollars, to and including one hundred dollars, three per cent. a month and each fraction thereof at the same rate; on a loan of over one hundred dollars, two per cent. a month and each fraction thereof at the same rate.

A true copy of an order passed by the Board of Aldermen and approved by the Mayor May 13, 1913, as amended by an order passed by the Board of Aldermen and approved by the Mayor June 3, 1913.

Attest: E. A. NEWELL, *City Clerk.*

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TAXES.

TAXES—1905—WILLIAM H. C. AUGUR, COLLECTOR.

Amount of State tax committed,	$98,960 00		
Amount of County tax committed,	74,932 77		
Amount of Bank tax committed,	39,209 52		
Amount of City tax committed,	1,109,312 49		
Amount of Military Armory tax committed,	6,728 38		
Amount of Grade Crossing tax committed,	1,177 05		
Amount of Excise tax Springfield Street Railway committed,	12,132 26	—	$1,342,452 47
Received of Collector as follows:—			
State tax,	$98,960 00		
County tax,	74,932 77		
Bank tax,	39,209 52		
On account of City tax,	1,096,511 34		
Military Armory tax,	6,728 38		
Grade Crossing tax,	1,177 05		
Excise tax Springfield Street Railway,	12,132 26		
Abatements,	12,801 15	—	$1,342,452 47

Rate—Fifteen dollars and forty cents on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1906—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$86,590 00
Amount of County tax committed,	89,968 08
Amount of Bank tax committed,	26,876 53
Amount carried forward,	$203,434 61

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Amount brought forward,	$203,434 61		
Amount of City tax committed,	1,157,038 64		
Amount of Military Armory tax committed,	6,611 06		
Amount of Grade Crossing tax committed,	1,111 66		
Amount of Excise tax Springfield Street Railway committed,	12,856 06		
Amount of Special Census tax committed,	820 78	—	$1,381,872 81
Received of Collector as follows: —			
State tax,	$86,590 00		
County tax,	89,968 08		
Bank tax,	26,876 53		
On account of City tax,	1,145,794 34		
Military Armory tax,	6,611 06		
Grade Crossing tax,	1,111 66		
Excise tax Springfield Street Railway,	12,856 06		
Special Census,	820 78		
Abatements,	11,244 30	—	$1,381,872 81

Rate—Fifteen dollars on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1907—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$103,280 00		
Amount of County tax committed,	92,566 11		
Amount of Bank tax committed,	26,073 69		
Amount of City tax committed,	1,230,789 52		
Amount of Military Armory tax committed,	6,430 43		
Amount of Excise tax Springfield Street Railway committed,	13,646 75	—	$1,472,786 50
Received of Collector as follows: —			
State tax,	$103,280 00		
County tax,	92,566 11		
Bank tax,	26,073 69		
On account of City tax,	1,220,963 31		
Military Armory tax,	6,430 43		
Excise tax Springfield Street Railway,	13,646 75		
Abatements,	9,826 21	—	$1,472,786 25

Rate—Fifteen dollars on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

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TAXES—1908—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$142,010 00		
Amount of County tax committed,	92,465 60		
Amount of Bank tax committed,	26,346 46		
Amount of City tax committed,	1,326,257 02		
Amount of Military Armory tax committed,	922 50		
Amount of Excise tax Springfield Street Railway committed,	13,608 62		
Amount for abating nuisance Kibbe Hollow tax committed,	785 76	—	$1,602,395 96
Received of Collector as follows:—			
State tax,	$142,010 00		
County tax,	92,465 60		
Bank tax,	26,346 46		
On account of City tax,	1,313,145 20		
Military Armory tax,	922 50		
Excise tax Springfield Street Railway,	13,608 62		
Abatements,	13,463 23		
On account of abating nuisance Kibbe Hollow,	434 35	—	$1,602,395 96

Rate—Fifteen dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1909—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$116,190 00		
Amount of County tax committed,	92,465 60		
Amount of Bank tax committed,	25,127 59		
Amount of City tax committed,	1,442,009 18		
Amount of Excise tax Springfield Street Railway committed,	14,214 26		
Amount for abating nuisance Kibbe Hollow tax committed,	785 76	—	$1,690,792 39
Received of Collector as follows:—			
State tax,	$116,190 00		
County tax,	92,465 60		
Bank tax,	25,127 59		
On account of City tax,	1,426,950 22		
Amount carried forward,	$1,660,733 91		

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Amount brought forward,	$1,660,733 41	
Excise tax Springfield Street Railway,	14,214 26	
Abatements,	15,349 67	
Abatement on account of abating nuisance Kibbe Hollow,	495 05—	$1,690,792 39

Rate—Fourteen dollars and eighty cents on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1910—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$158,345 00	
Amount of County tax committed,	95,413 62	
Amount of Bank tax committed,	29,595 64	
Amount of City tax committed,	1,685,106 13	
Amount of Excise tax Springfield Street Railway committed,	14,671 37—	$1,983,131 76
Received of Collector as follows:—		
State tax,	$158,345 00	
County tax,	95,413 62	
Bank tax,	29,595 64	
On account of City tax,	1,665,597 37	
Excise tax Springfield Street Railway,	14,671 37	
Abatements,	19,508 76—	$1,983,131 76

Rate—Fifteen dollars and eighty cents on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1911—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$158,345 00	
Amount of County tax committed,	107,658 85	
Amount of Bank tax committed,	33,125 83	
Amount of City tax committed,	1,907,444 59	
Amount of Excise tax Springfield Street Railway committed,	13,441 88—	$2,220,216 15

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Received of Collector as follows:—

State tax,	$158,345 00	
County tax,	107,858 85	
Bank tax,	33,125 83	
On account of City tax,	1,890,146 68	
Excise tax Springfield Street Railway,	13,441 88	
Abatements,	15,123 21	
Uncollected taxes,	2,174 70—	$2,220,216 15

Rate—Sixteen dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1912—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,		$182,027 18	
	$179,937 50		
State System of accounts,	2,089 68		
Amount of County tax committed,		105,266 09	
Amount of Bank tax committed,		28,134 82	
Amount of City tax committed,		2,126,195 11	
Amount of Excise tax Springfield Street Railway committed,		14,584 19—	$2,456,207 39

Received of Collector as follows:—

State tax,	$182,027 18	
County tax,	105,266 09	
Bank tax,	28,134 82	
On account of City tax,	2,101,542 88	
Excise tax Springfield Street Railway,	14,584 19	
Abatements,	19,351 02	
Uncollected taxes,	5,301 21—	$2,456,207 39

Rate—Fifteen dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest, WILLIAM C. MARSH, *City Auditor.*

TAXES—1913—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$255,920 00	
Amount of County tax committed,	116,422 70	
Amount of Bank tax committed,	25,108 66	
Amount of City tax committed,	2,365,306 95	
Amount of Excise tax, Springfield Street Railway committed,	16,446 00—	$2,779,204 31

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Received of Collector as follows:—

State tax,	$255,920 00	
County tax,	116,422 70	
Bank tax,	25,108 66	
On account of City tax,	1,854,933 96	
Abatements,	16,867 56	
Uncollected taxes,	509,951 43—	$2,779,204 31

Rate—Fifteen dollars and eighty cents on one thousand dollars. Poll tax, two dollars.

Attest, WM. G. McINTYRE, *City Auditor.*

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ASSESSORS' VALUATION OF PROPERTY.

1852—Total valuation,		$5,180,210 00
1853—Total valuation,		5,509,660 00
1854—Total valuation,		7,762,250 00
1855—Total valuation,		8,409,870 00
1856—Total valuation,		8,284,060 00
1857—Total valuation,		8,558,720 00
1858—Real estate,	$5,702,040 00	
Personal estate,	2,679,100 00	8,381,140 00
1859—Real estate,	5,794,590 00	
Personal estate,	2,845,640 00	8,640,230 00
1860—Real estate,	5,962,480 00	
Personal estate,	2,955,800 00	8,918,280 00
1861—Real estate,	6,417,660 00	
Personal estate,	3,067,920 00	9,485,580 00
1862—Real estate,	6,719,500 00	
Personal estate,	3,039,390 00	9,758,890 00
1863—Real estate,	7,211,320 00	
Personal estate,	3,744,790 00	10,956,110 00
1864—Real estate,	8,536,490 00	
Personal estate,	2,871,430 00	11,407,920 00
1865—Real estate,	9,007,850 00	
Personal estate,	3,784,910 00	12,792,760 00
1866—Real estate,	10,241,540 00	
Personal estate,	4,755,480 00	14,997,020 00
1867—Real estate,	12,758,420 00	
Personal estate,	5,110,810 00	17,869,230 00
1868—Real estate,	15,125,520 00	
Personal estate,	5,322,640 00	20,448,160 00
1869—Real estate,	17,665,610 00	
Personal estate,	5,901,570 00	23,567,180 00
1870—Real estate,	18,443,990 00	
Personal estate,	6,070,070 00	24,514,060 00
1871—Real estate,	20,962,100 00	
Personal estate,	6,589,870 00	27,551,970 00

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1872—Real estate,	$26,098,920 00	
Personal estate,	7,512,230 00	$33,611,150 00
1873—Real estate,	29,380,520 00	
Personal estate,	8,060,300 00	37,440,820 00
1874—Real estate,	30,489,850 00	
Personal estate,	7,846,928 00	38,336,778 00
1875—Real estate,	31,125,660 00	
Personal estate,	8,398,912 40	39,524,572 40
1876—Real estate,	27,647,560 00	
Personal estate,	7,461,896 86	35,109,456 86
1877—Real estate,	23,737,000 00	
Personal estate,	6,955,776 66	30,692,776 66
1878—Real estate,	22,746,330 00	
Personal estate,	6,637,845 72	29,384,175 72
1879—Real estate,	22,211,230 00	
Personal estate,	7,230,094 00	29,441,324 00
1880—Real estate,	22,856,020 00	
Personal estate,	8,292,655 00	31,148,675 00
1881—Real estate,	23,795,920 00	
Personal estate,	8,935,850 00	32,731,770 00
1882—Real estate,	25,084,420 00	
Personal estate,	9,198,258 00	34,282,678 00
1883—Real estate,	25,676,800 00	
Personal estate,	9,260,459 00	34,937,259 00
1884—Real estate,	26,301,150 00	
Personal estate,	8,792,666 00	35,093,816 00
1885—Real estate,	26,969,800 00	
Personal estate,	8,865,928 00	35,835,728 00
1886—Real estate,	27,638,760 00	
Personal estate,	9,143,442 00	36,782,202 00
1887—Real estate,	28,566,280 00	
Personal estate,	9,416,384 17	37,982,664 17
1888—Real estate,	30,323,140 00	
Personal estate,	9,540,115 14	39,863,255 14
1889—Real estate,	32,000,680 00	
Personal estate,	10,072,895 00	42,073,575 00
1890—Real estate,	33,795,860 00	
Personal estate,	10,697,773 00	44,493,633 00
1891—Real estate,	37,219,490 00	
Personal estate,	11,110,144 00	48,329,634 00

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1892—Real estate,	$39,444,580 00	
Personal estate,	11,336,407 00	$50,780,987 00
1893—Real estate,	42,975,820 00	
Personal estate,	12,264,099 00	55,239,919 00
1894—Real estate,	44,083,900 00	
Personal estate,	12,365,525 00	56,449,425 00
1895—Real estate,	46,063,460 00	
Personal estate,	12,969,681 00	59,033,141 00
1896—Real estate,	48,344,280 00	
Personal estate,	13,071,811 00	61,416,091 00
1897—Real estate,	50,344,460 00	
Personal estate,	14,553,919 00	64,898,379 00
1898—Real estate,	52,022,570 00	
Personal estate,	13,677,143 00	65,699,713 00
1899—Real estate,	53,400,770 00	
Personal estate,	16,469,077 00	69,869,847 00
1900—Real estate,	55,676,320 00	
Personal estate,	16,682,161 00	72,358,481 00
1901—Real estate,	57,394,710 00	
Personal estate,	16,944,217 00	74,338,927 00
1902—Real estate,	58,411,160 00	
Personal estate,	16,424,905 40	74,836,065 40
1903—Real estate,	60,787,130 00	
Personal estate,	16,420,768 80	77,207,898 80
1904—Real estate,	62,145,950 00	
Personal estate,	16,722,107 80	78,868,057 80
1905—Real estate,	63,273,330 00	
Personal estate,	17,631,146 80	80,904,476 80
1906—Real estate,	68,239,990 00	
Personal estate,	18,265,191 00	86,505,181 00
1907—Real estate,	73,319,860 00	
Personal estate,	19,058,764 00	92,378,624 00
1908—Real estate,	76,965,520 00	
Personal estate,	20,132,788 00	97,098,308 00
1909—Real estate,	85,403,490 00	
Personal estate,	22,472,290 00	107,875,780 00
1910—Real estate,	94,984,660 00	
Personal estate,	24,097,118 00	119,081,778 00

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1911—Real estate,	$102,393,230 00	
Personal estate,	25,659,804 00	$128,053,034 00
1912—Real estate,	123,602,570 00	
Personal estate	25,927,780 00	149,530,350 00
1913—Real estate,	139,335,980 00	
Personal estate,	30,304,504 00	169,640,484 00

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CITY OFFICERS.

CITY OFFICERS FOR 1852.

MAYOR—CALEB RICE.

ALDERMEN—Ward One, Samuel S. Day; Ward Two, Eliphalet Trask; Ward Three, E. D. Beach; Ward Four, George Dwight; Ward Five, Albert Morgan; Ward Six, Charles G. Rice; Ward Seven, Oliver B. Bannon; Ward Eight, F. A. Barton.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, Henry Morris; Ward One, J. B. M. Stebbins, Eleazer Ripley, John V. Jones; Ward Two, W. C. Sturtevant, Francis Bates, Henry Fuller, Jr.; Ward Three, Charles Merriam, Willis Phelps, Cicero Simons; Ward Four, Henry Morris, Alexander H. Avery, Benjamin F. Warner; Ward Five, William Hitchcock, Hiram Q. Sanderson, Nathaniel Cate; Ward Six, Henry Adams; Ward Seven, Ezra Kimberly; Ward Eight, Rodney Holt.

CLERK—Alanson Hawley.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1853.

MAYOR—CALEB RICE.

ALDERMEN—Ward One, John B. Stebbins; Ward Two, Eliphalet Trask; Ward Three, Willis Phelps; Ward Four, Henry Vose; Ward Five, Titus Amadon; Ward Six, Drayton Perkins; Ward Seven, Joseph N. Sollace; Ward Eight, Harvey Foster.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, Henry Morris (resigned May 16), William Stowe; Ward One, Daniel Hitchcock, William Pynchon, Addison Day; Ward Two, Joseph C. Pynchon, Orrin Baker, E. W. Bond; Ward Three, Lombard Dale, T. M. Walker, William Stowe; Ward Four, Henry Morris, Alexander H. Avery, Edmund Palmer; Ward Five, Nathanie Cate, William Dickinson, Daniel Collins; Ward Six, Henry Adams; War Seven, Ezra Kimberly; Ward Eight, William S. Barker.

CLERK—Alanson Hawley (resigned March 7), Samuel O. Gay.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1854.

MAYOR—PHILOS B. TYLER.

ALDERMEN—Ward One, Wilson Eddy; Ward Two, Eliphalet Trask; Ward Three, Elkanah Barton; Ward Four, William L. Washburn; Ward Five, Edward F. Moseley; Ward Six, Roderick Lombard; Ward Seven, Joseph Lombard; Ward Eight, Rodney Holt.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, Samuel S. Day; Ward One, Asa Clark, Samuel S. Day, Thomas W. Wason; Ward Two, George H. Roberts, Henry A. Robinson, Roderick Ashley; Ward Three, Philo F. Wilcox, Lombard Dale, Frederick H. Harris; Ward Four, Daniel L. Harris, Tilly Haynes, Joseph B. Hopkins; Ward Five, Daniel Collins, G. W. Harrison, A. H. Clark; Ward Six, Edwin S. Hall; Ward Seven, Harris B. Johnson; Ward Eight, Horace Pease.

CLERK—Charles O. Chapin.

CITY CLERK AND TREASURER—Joseph Ingraham.

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CITY OFFICERS FOR 1855.

MAYOR—ELIPHALET TRASK.

ALDERMEN—Ward One, James M. Blanchard; Ward Two, W. C. Sturtevant; Ward Three, David Smith; Ward Four, Daniel Reynolds; Ward Five, William E. Montague; Ward Six, Henry Adams; Ward Seven, James P. Chapman; Ward Eight, Harvey Foster.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, John M. Stebbins; Ward One, E. B. Haskell, John M. Stebbins, Stephen Morse; Ward Two, O. W. Wilcox, John Hooker, 3d, D. H. Brigham; Ward Three, Francis S. Graves, Rufus Elmer, E. W. Dickinson; Ward Four, Abel B. Howe, John W. Hunt, Jeremiah R. Cadwell; Ward Five, Nathaniel Howard, S. S. Holmes, E. F. Moseley; Ward Six, J. G. Capron; Ward Seven, Luther S. Lewis; Ward Eight, Samuel Webber.

CLERK—Thomas Chubbuck.

CITY CLERK AND TREASURER Joseph Ingraham.

CITY OFFICERS FOR 1856.

MAYOR—ANSEL PHELPS, JR.

ALDERMEN—Ward One, Samuel S. Day; Ward Two, Henry Fuller, Jr.; Ward Three, Edmund Freeman; Ward Four, Stephen C. Bemis; Ward Five, Thomas H. Allen; Ward Six, Henry Alexander, Jr.; Ward Seven, Henry Reynolds; Ward Eight, Samuel Webber.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, James Kirkham; Ward One, Charles O. Russell, Chauncey L. Covell, Hervey Hills; Ward Two, O. W. Wilcox, Henry A. Chapin, Dexter H. Brigham; Ward Three, Dr. Nathan Adams, Charles L. Shaw, George Whitney; Ward Four, James Kirkham, George Walker, John W. Hunt; Ward Five, Otis A. Seamans, E. F. Moseley, Nelson Tyler; Ward Six, Elbridge Barton; Ward Seven, William Smith; Ward Eight, Milton Foster.

CLERK—Charles O. Chapin.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1857.

MAYOR—ANSEL PHELPS, JR.

ALDERMEN—Ward One, Samuel S. Day; Ward Two, Henry Fuller, Jr.; Ward Three, Henry Alexander, Jr.; Ward Four, Stephen C. Bemis; Ward Five, Joseph Hannis; Ward Six, James Warner; Ward Seven, Henry Pomroy; Ward Eight, Samuel Webber, Jr.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, George Walker; Ward One, Charles O. Russell, Chauncey L. Covell, James Stebbins; Ward Two, Erastus Hayes, Lyman King, Francis B. Bacon; Ward Three, Marvin Lincoln, Henry Avery, John R. Hixon; Ward Four, George Walker, Samuel Leonard, William Birnie; Ward Five, Charles Woodman, Luther Upton, George A. Otis; Ward Six, Elbridge Barton; Ward Seven, William Smith; Ward Eight, George A. Cooley.

CLERK—Charles O. Chapin.

CITY CLERK AND TREASURER—Joseph Ingraham.

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CITY OFFICERS FOR 1858.

MAYOR—ANSEL PHELPS, JR.

ALDERMEN—Ward One, Samuel S. Day; Ward Two, Henry Fuller, Jr.; Ward Three, Henry Alexander, Jr.; Ward Four, Stephen C. Bemis; Ward Five, Joseph Hannis; Ward Six, James Warner; Ward Seven, Henry Pomroy; Ward Eight, Samuel Webber, Jr. (resigned), E. A. Fuller.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, John R. Hixon; Ward One, Wilson Eddy, William Pynchon, William L. Smith; Ward Two, Randolph E. Ladd, Ambrose N. Merrick, Charles B. Trask; Ward Three, John R. Hixon, Henry A. Chapin, Gurdon Bill; Ward Four, Samuel Leonard, John W. Hunt, R. G. Shumway; Ward Five, Charles Woodman, George Swetland, John Brooks; Ward Six, Elbridge Barton; Ward Seven, Joseph Wheelock, Jr.; Ward Eight, Erastus King.

CLERK—Charles O. Chapin.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1859.

MAYOR—WILLIAM B. CALHOUN.

ALDERMEN—Ward One, Chauncey L. Covell; Ward Two, Roger S. Moore; Ward Three, Edmund Freeman; Ward Four, Daniel L. Harris; Ward Five, William Hitchcock; Ward Six, J. G. Capron; Ward Seven, Horace Smith; Ward Eight, George W. Holt.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, A. N. Merrick (resigned in May), Samuel Leonard; Ward One, Joshua M. Harrington, Justin M. Cooley, John V. Jones; Ward Two, George H. Roberts, Lewis H. Taylor, Gurdon C. Judson; Ward Three, A. N. Merrick, Daniel Gay, Hosea C. Lombard; Ward Four, Samuel Leonard, Alfred Rowe, Reuben T. Safford; Ward Five, Theodore Bishop, Walter Maynard, Walter North; Ward Six, Isaac D. Gibbons; Ward Seven, Ransley Hall; Ward Eight, Warren L. Shaw.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICFRS FOR 1860.

MAYOR—DANIEL L. HARRIS.

ALDEDMEN—Ward One, Edmund B. Haskell; Ward Two, Erastus Hayes; Ward Three, Franklin Chamberlain; Ward Four, John W. Hunt; Ward Five, William Hitchcock; Ward Six, John G. Capron; Ward Seven, William Foster; Ward Eight, George W. Holt.

CLERK—Horace C. Lee.

COMMON COUNCILMEN—President, N. A. Leonard; Ward One, Joshua M. Harrington, H. S. Noyes, J. H. Demond; Ward Two, Lewis H. Taylor, George R. Townsley, Charles A. Winchester; Ward Three, William L. Wilcox, John Hamilton, Clark W. Bryan; Ward Four, N. A. Leonard, William Birnie, Alfred Rowe; Ward Five, William Higley, A. F. Strong, Charles Woodman; Ward Six, Robert Crossett; Ward Seven, Orrin Lombard; Ward Eight, Andrew J. Plumer.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Horace C. Lee.

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CITY OFFICERS FOR 1861.

MAYOR—STEPHEN C. BEMIS.

ALDERMEN—Ward One, Henry Gray; Ward Two, Ephriam W. Bond; Ward Three, H. N. Case; Ward Four, Nathaniel Howard; Ward Five, Charles Woodman; Ward Six, Amos Call; Ward Seven, William Smith; Ward Eight, A. J. Plumer.

CLERK—Horace C. Lee.

COMMON COUNCILMEN—President, N. A. Leonard; Ward One, H. J. Chapin, J. M. Cooley, J. H. Demond; Ward Two, Lewis H. Taylor, D. H. Brigham, F. B. Bacon; Ward Three, William L. Wilcox, John Hamilton, James M. Skiff; Ward Four, N. A. Leonard, John W. Bliss, Alfred Rowe; Ward Five, William Higley, Otis A. Seamans, A. W. Allen; Ward Six, Aaron C. Barton; Ward Seven, Henry Reynolds; Ward Eight, H. E. Moseley.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Horace C. Lee.

CITY OFFICERS FOR 1862.

MAYOR—STEPHEN C. BEMIS.

ALDERMEN—Ward One, Henry Gray; Ward Two, E. W. Bond; Ward Three, H. N. Case; Ward Four, T. W. Wason; Ward Five, Horace Kibbe; Ward Six, Horace Smith; Ward Seven, William Smith; Ward Eight, H. S. Evans.

CLERK—S. B. Spooner, Jr.

COMMON COUNCILMEN—President, N. A. Leonard; Ward One, Horace J. Chapin, L. O. Hanson, L. J. Powers; Ward Two, Sylvester Day, Tim Henry, Eli H. Patch; Ward Three, James M. Skiff, J. E. Taylor, A. F. Jennings; Ward Four, N. A. Leonard, Alfred Rowe, T. M. Walker; Ward Five, P. V. B. Havens, George K. Jacobs, George K. Charter; Ward Six, Aaron C. Barton; Ward Seven, Ezekiel Keith; Ward Eight, H. E. Moseley.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Samuel B. Spooner (resigned September 30), A. T. Folsom.

CITY OFFICERS FOR 1863.

MAYOR—HENRY ALEXANDER, JR.

ALDERMEN—Ward One, Justin M. Cooley; Ward Two, William Patton; Ward Three, William K. Baker; Ward Four, Daniel L. Harris; Ward Five, William Bodurtha; Ward Six, Horace Smith; Ward Seven, Virgil Perkins; Ward Eight, Andrew J. Plumer.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, N. A. Leonard; Ward One, N. W. Talcott, George S. Haskell, Luther Clark; Ward Two, O. H. Greenleaf, G. R. Townsley, John West; Ward Three, Aaron G. Lord, James M. Skiff, Francis S. Graves; Ward Four, N. A. Leonard, A. L. Soule, Henry S. Lee; Ward Five, Cheney Bigelow, George K. Charter (resigned), Charles Phelps, Orlando Chapin (resigned), William Collins; Ward Six, J. G. Chase; Ward Seven, C. P. L. Warner; Ward Eight, Hiram Warner.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

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CITY OFFICERS FOR 1864.

MAYOR—HENRY ALEXANDER, JR.

ALDERMEN—Ward One, Norman W. Talcott; Ward Two, William Patton; Ward Three, Albert D. Briggs; Ward Four, Frederick H. Harris; Ward Five, Charles Barrows; Ward Six, Warren H. Wilkinson; Ward Seven, Virgil Perkins; Ward Eight, Harvey E. Moseley.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, N. A. Leonard; Ward One, Henry S. Hyde, John Mulligan, Charles H. Allen; Ward Two, O. H. Greenleaf, G. R. Townsley, J. F. Tannatt; Ward Three, Charles A. Winchester, W. H. Smith, A. N. Merrick; Ward Four, N. A. Leonard, A. L. Soule, Henry S. Lee; Ward Five, Charles Phelps, William Collins, S. W. Porter; Ward Six, L. H. Taylor; Ward Seven, Peter Valentine; Ward Eight, George Foster.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1865.

MAYOR—ALBERT D. BRIGGS.

ALDERMEN—Ward One, Henry S. Hyde; Ward Two, George R. Townsley; Ward Three, Otis Childs; Ward Four, Frederick H. Harris; Ward Five, Charles Barrows; Ward Six, Warren H. Wilkinson; Ward Seven, Virgil Perkins; Ward Eight, Andrew J. Plumer.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, John Mulligan, W. H. Allis, H. S. Noyes; Ward Two, Gideon Wells, John Olmsted, J. F. Tannatt; Ward Three, William H. Smith, J. F. Tapley, H. N. Tinkham; Ward Four, N. A. Leonard, Henry S. Lee, S. J. Hall; Ward Five, Charles Phelps, S. W. Porter, J. Q. A. Sexton; Ward Six, Gustavus D. Tapley; Ward Seven, Rawson Hathaway; Ward Eight, George Foster.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1866.

MAYOR—ALBERT D. BRIGGS.

ALDERMEN—Ward One, William Pynchon; Ward Two, D. H. Brigham; Ward Three, Tim Henry; Ward Four, F. H. Harris; Ward Five, G. W. Harrison; Ward Six, W. H. Wilkinson; Ward Seven, John G. Taylor (died), Rawson Hathaway; Ward Eight, John Severson.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, William L. Smith; Ward One, J. H. Demond, Warren Emerson, J. C. McIntosh; Ward Two, Gideon Wells, H. M. Morehouse, George Dwight, Jr.; Ward Three, H. N. Tinkham, William H. Smith, Joseph H. Damon; Ward Four, D. B. Wesson, William L. Smith, W. S. Marsh; Ward Five, Charles Phelps, S. W. Porter, Charles Chapman; Ward Six, Gustavus D. Tapley; Ward Seven, John M. Meggett; Ward Eight, Samuel Mills.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

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CITY OFFICERS FOR 1867.

MAYOR—ALBERT D. BRIGGS.

ALDERMEN—Ward One, John Mulligan; Ward Two, Tim Henry; Ward Three, H. N. Tinkham; Ward Four, F. H. Harris; Ward Five, Samuel W. Porter; Ward Six, Amos Call; Ward Seven, Rawson Hathaway; Ward Eight, John Severson.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, William L. Smith; Ward One, J. C. McIntosh, Warren Emerson, J. H. Demond; Ward Two, H. M. Morehouse, C. S. Hurlbut, L. A. Tifft; Ward Three, Charles Marsh, H. K. W. Dickinson, P. S. Bailey; Ward Four, W. L. Smith, W. S. Marsh, L. J. Powers; Ward Five, Charles Chapman, A. H. Clark, J. S. Brown; Ward Six, Charles A. Call; Ward Seven, E. W. Clark; Ward Eight, Samuel Mills.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1868.

MAYOR—CHARLES A. WINCHESTER.

ALDERMEN—Ward One, John Mulligan; Ward Two, Tim Henry; Ward Three, H. N. Tinkham; Ward Four, W. S. Marsh; Ward Five, Samuel W. Porter; Ward Six, Amos Call; Ward Seven, E. W. Clark; Ward Eight, Milo Chapin.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, Warren Emerson, Josiah Bumstead, Roswell Lee; Ward Two, O. H. Greenleaf, Charles R. Ladd, Lewis A. Tifft; Ward Three, E. H. Patch, A. J. McIntosh, William H. Smith; Ward Four, Henry S. Lee, E. G. Norton, M. A. Clyde; Ward Five, Cyrus E. Buckland, Alden Warner, William R. Purple; Ward Six, George E. Howard; Ward Seven, Charles Gage; Ward Eight, George Swetland.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1869.

MAYOR—CHARLES A. WINCHESTER.

ALDERMEN—Ward One, J. M. Cooley; Ward Two, George Dwight; Ward Three, William H. Smith; Ward Four, W. S. Marsh; Ward Five, Joseph M. Hall; Ward Six, George E. Howard; Ward Seven, Charles Gage; Ward Eight, Charles J. Goodwin.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, George M. Atwater, Josiah Bumstead, John Olmsted; Ward Two, Charles R. Ladd, O. H. Greenleaf, C. C. Smith; Ward Three, A. J. McIntosh, E. H. Patch, J. H. Appleton; Ward Four, Henry S. Lee, E. G. Norton, L. J. Powers; Ward Five, Alden Warner, E. B. Haskell, W. P. Taylor; Ward Six, I. P. Dickinson; Ward Seven, William H. Pinney; Ward Eight, George Swetland.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

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CITY OFFICERS FOR 1870.

MAYOR—WILLIAM L. SMITH.

ALDERMEN—Ward One, J. A. Rumrill; Ward Two, Eliphalet Trask; Ward Three, Dr. John Hooker; Ward Four, Willis Phelps; Ward Five, Joseph M. Hall; Ward Six, I. P. Dickinson; Ward Seven, William H. Pinney; Ward Eight, George Foster.

CLERK A. T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, Albert Holt, A. D. Day, C. B. Holbrook; Ward Two, George Dwight, Jr., James S. Bourke, David Legro; Ward Three, James E. McIntire, George W. Tapley, George S. Lewis; Ward Four, Henry S. Lee, Gurdon Bill, S. R. Phillips; Ward Five, Charles Phelps, William B. Miller, T. B. Wilson; Ward Six, George E. Howard; Ward Seven, John A. Hall; Ward Eight, Alfred S. Packard.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1871.

MAYOR—WILLIAM L. SMITH.

ALDERMEN—Ward One, Josiah Bumstead; Ward Two, Charles R. Ladd; Ward Three, Lawson Sibley; Ward Four, James M. Thompson; Ward Five, Richard F. Hawkins; Ward Six, Isaac P. Dickinson; Ward Seven, John A. Hall; Ward Eight, Noyes Barstow.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, Albert Holt, P. W. Brewster, F. J. Donahue; Ward Two, Milton Bradley, Tilly Haynes, R. Warren; Ward Three, B. C. English, S. B. Spooner, N. C. Newell; Ward Four, Henry S. Lee, Henry M. Phillips, E. A. Perkins; Ward Five, T. B. Wilson, J. C. Perry, E. B. Maynard; Ward Six, George E. Howard; Ward Seven, J. W. Lull; Ward Eight, George Swetland.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1872.

MAYOR—SAMUEL B. SPOONER.

ALDERMEN—Ward Two, Charles R. Ladd; Ward Three, William H. Smith; Ward Four, Emerson Wight; Ward Five, Joseph M. Hall, R. F. Hawkins; Ward Six, George E. Howard; Ward Seven, William H. Pinney; Ward Eight, Noyes Barstow.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, M. P. Knowlton; Ward One, F. J. Donahue, L. H. Powers, N. W. Fisk; Ward Two, O. H. Greenleaf, George W. Ray, Henry F. Trask; Ward Three, N. C. Newell, Samuel Palmer, George M. Smith; Ward Four, E. A. Perkins, H. M. Phillips, V. N. Taylor; Ward Five, M. P. Knowlton, E. B. Maynard, P. H. M. Brooks; Ward Six, E. A. Newell; Ward Seven, J. W. Lull; Ward Eight, W. L. Converse.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

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CITY OFFICERS FOR 1873.

MAYOR—SAMUEL B. SPOONER.

ALDERMEN—Ward One, H. S. Hyde; Ward Two, George W. Ray; Ward Three, E. H. Patch; Ward Four, Emerson Wight; Ward Five, R. F. Hawkins; Ward Six, George E. Howard; Ward Seven, L. A. Tifft; Ward Eight, Noyes Barstow.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, M. P. Knowlton; Ward One, Florence J. Donahue, Noyes W. Fisk, Albert Holt; Ward Two, O. H. Greenleaf, H. F. Trask, S. C. Warriner; Ward Three, Joseph K. Newell, Charles M. Lee, Charles M. King; Ward Four, Varnum N. Taylor, E. A. Perkins, H. M. Phillips; Ward Five, M. P. Knowlton, J. D. McKnight, W. G. Chamberlain; Ward Six, E. A. Newell; Ward Seven, B. F. Farrar; Ward Eight, John Warriner.

CLERK—John A. Hall.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1874.

MAYOR—JOHN M. STEBBINS.

ALDERMEN—Ward One, Albert Holt; Ward Two, Hugh Donnelly; Ward Three, A. J. McIntosh; Ward Four, L. J. Powers; Ward Five, Albert W. Allen; Ward Six, I. P. Dickinson; Ward Seven, J. W. Lull; Ward Eight, Henry C. Fuller.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, T. B. Wilson; Ward One, D. J. Curtis, Horace Wheeler, James A. Byrnes; Ward Two, L. B. Lillie, M. L. Tourtellotte, P. J. Ryan; Ward Three, B. S. Haskins, Charles A. King, August Sheppert; Ward Four, J. H. Appleton, Homer Foot, Jr., D. J. Marsh; Ward Five, W. G. Chamberlain, T. B. Wilson, Benjamin Hannis; Ward Six, Daniel Schoonmaker; Ward Seven, E. W. Ladd; Ward Eight, John Warriner.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1875.

MAYOR—EMERSON WIGHT.

ALDERMEN—Ward One, Hinsdale Smith; Ward Two, D. H. Brigham; Ward Three, F. H. Fuller; Ward Four, L. J. Powers; Ward Five, W. G. Chamberlain; Ward Six, Amos Call; Ward Seven, Rawson Hathaway; Ward Eight, H. K. Wight.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, Horace Wheeler, James A. Byrnes, N. W. Fisk; Ward Two, S. E. Seymour, H. F. Trask, M. L. Tourtellotte; Ward Three, J. K. Newell, A. J. Plumer, J. K. Winter; Ward Four, Henry S. Lee, D. L. Harris, J. S. Carr; Ward Five, B. S. Haskins, Benjamin Hannis, E. S. Stacy; Ward Six, Daniel Schoonmaker; Ward Seven, E. P. Cook; Ward Eight, D. P. Woolson.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

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CITY OFFICERS FOR 1876.

MAYOR—EMERSON WIGHT.

ALDERMEN—Ward One, N. W. Talcott; Ward Two, George Dwight; Ward Three, J. K. Newell; Ward Four, Henry S. Lee; Ward Five, N. I. Hawley; Ward Six, D. L. Swan; Ward Seven, Rawson Hathaway; Ward Eight, H. K. Wight.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, H. F. Trask; Ward One, John Mulligan, J. M. Cooley, J. J. Moore; Ward Two, Milton Bradley, H. F. Trask, M. L. Tourtellotte; Ward Three, H. N. Tinkham, J. F. Tapley, Elijah Nichols; Ward Four, W. S. Shurtleff, D. L. Harris, J. S. Carr; Ward Five, H. W. Phelps, Edwin McElwain, E. S. Stacy; Ward Six, R. R. McGregor; Ward Seven, Larkin Newell; Ward Eight, Samuel F. Smith.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1877.

MAYOR—EMERSON WIGHT.

ALDERMEN—Ward One, John Olmsted; Ward Two, George Dwight; Ward Three, J. F. Tapley; Ward Four, Henry S. Lee; Ward Five, N. I. Hawley (resigned), Benj. Hannis; Ward Six, D. L. Swan; Ward Seven, W. H. Pinney; Ward Eight, H. K. Wight.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, H. F. Trask; Ward One, John Mulligan, N. W. Fisk, L. H. Powers; Ward Two, H. F. Trask, M. L. Tourtellotte, George E. Frink; Ward Three, H. N. Tinkham, Elijah Nichols, George B. Smith; Ward Four, Daniel L. Harris, William S. Shurtleff, J. K. Newell; Ward Five, Edwin McElwain, John A. Hall, A. J. Wright; Ward Six, H. C. Puffer; Ward Seven, E. W. Ladd; Ward Eight, Milo Chapin.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1878.

MAYOR—EMERSON WIGHT.

ALDERMEN—Ward One, John Olmsted; Ward Two, George Dwight; Ward Three, J. F. Tapley; Ward Four, Henry S. Lee; Ward Five, John A. Hall; Ward Six, D. L. Swan; Ward Seven, W. H. Pinney; Ward Eight, H. K. Wight.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, A. J. Wright; Ward One, John Mulligan, L. H. Powers, E. Belding; Ward Two, Dr. H. G. Stickney, Dr. A. R. Rice, E. M. Bartlett; Ward Three, Elijah Nichols, George B. Smith, J. R. Smith; Ward Four, W. S. Shurtleff, J. K. Newell, H. A. Gould; Ward Five, A. J. Wright, N. W. Howard, S. L. Hodgdon; Ward Six, George R. Dickinson; Ward Seven, Edwin W. Ladd; Ward Eight, F. M. Bardwell.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

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CITY OFFICERS FOR 1879.

MAYOR—LEWIS J. POWERS.

ALDERMEN—Ward One, John Olmsted; Ward Two, George Dwight; Ward Three, J. F. Tapley; Ward Four, George W. Tapley; Ward Five, Benjamin Hannis; Ward Six, George R. Dickinson; Ward Seven, E. W. Ladd; Ward Eight, H. K. Wight.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, J. R. Smith; Ward One, John Mulligan, E. Belding, J. W. Baldwin; Ward Two, E. H. Phelps, Horace Jacobs, F. A. Judd; Ward Three, J. R. Smith, Elijah Nichols, Frank E. Winter; Ward Four, Henry A. Gould, George B. Holbrook, C. J. Sanderson; Ward Five, N. W. Howard, S. L. Hodgdon, M. J. Chamberlain; Ward Six, E. M. Lombard; Ward Seven, Charles Taylor; Ward Eight, F. M. Bardwell.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1880.

MAYOR—LEWIS J. POWERS.

ALDERMEN—Ward One, John Olmsted; Ward Two, S. C. Warriner; Ward Three, J. F. Tapley; Ward Four, George W. Tapley; Ward Five, Benjamin Hannis; Ward Six, George R. Dickinson; Ward Seven, E. W. Ladd; Ward Eight, H. K. Wight.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Elijah Belding; Ward One, E. Belding, Ethan C. Robinson, Harlan P. Stone; Ward Two, Fred A. Judd, E. H. Young, E. M. Bartlett; Ward Three, Elijah Nichols, Frank E. Winter, Emory Meekins; Ward Four, George B. Holbrook, Charles J. Sanderson, William H. Haile; Ward Five, Nathaniel W. Howard, Sewall L. Hodgdon, James D. Gill; Ward Six, Edward M. Lombard; Ward Seven, Charles Taylor; Ward Eight, Frank M. Bardwell.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1881.

MAYOR—WILLIAM H. HAILE.

ALDERMEN—Ward One, Elijah Belding; Ward Two, Stephen E. Seymour; Ward Three, Elijah Nichols; Ward Four, Edward P. Chapin; Ward Five, Oscar D. Adams; Ward Six, Edward M. Lombard; Ward Seven, George Nye; Ward Eight, H. K. Wight.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Charles J. Sanderson; Ward One, Harlan P. Stone, Hoyt E. Howard, Henry J. Beebe; Ward Two, Fred A. Judd, Edwin M. Bartlett, John Lobsitz; Ward Three, George P. Stebbins, Jacob C. Lutz, Simpson Clark; Ward Four, Charles J. Sanderson, William B. Walker, Edmund P. Kendrick; Ward Five, James D. Gill, Henry Dana, James F. Brierly; Ward Six, Albert E. Foth; Ward Seven, William C. Bemis; Ward Eight, George Foster.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

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CITY OFFICERS FOR 1882.

MAYOR—EDWIN W. LADD.

ALDERMEN—Ward One, Henry D. Carroll; Ward Two, Stephen E. Seymour; Ward Three, Elijah Nichols; Ward Four, Edward P. Chapin; Ward Five, Oscar D. Adams; Ward Six, Edward M. Lombard; Ward Seven, George Nye; Ward Eight, Davenport L. Fuller.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, Edmund P. Kendrick; Ward One, Harlan P. Stone, Henry J. Beebe, Ethan C. Robinson; Ward Two, Fred A. Judd, Frank M. Bugbee, Frank E. Carpenter; Ward Three, Simpson Clark, Jacob C. Lutz, James D. Parsons; Ward Four, Edmund P. Kendrick, James C. Alden, Edward C. Rogers; Ward Five, Henry Dana, Charles E. Dodge, Charles Fuller; Ward Six, George McGregory; Ward Seven, John S. Sanderson; Ward Eight, Edward D. Chapman.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1883.

MAYOR—HENRY M. PHILLIPS.

ALDERMEN—Ward One, Harlan P. Stone; Ward Two, Fred A. Judd; Ward Four, James Kirkham; Ward Four, James C. Alden; Ward Five, James D. Gill; Ward Six, Charles A. Call; Ward Seven, George Nye; Ward Seven, John S. Sanderson.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, E. P. Kendrick; Ward One, Charles McKay, J. F. Callanan, John L. Knight; Ward Two, Frank E. Carpenter, Frank M. Bugbee, James A. Bill, Jr.; Ward Three, Jacob C. Lutz, Simpson Clark, W. F. Cook; Ward Four, Edmund P. Kendrick, Edward C. Rogers, Thomas D. Lyon; Ward Five, George H. Wells, James Kimball, Whiteman T. Steere; Ward Six, Oscar S. Greenleaf; Ward Seven, George W. Hall; Ward Eight, John Rivers.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1884.

MAYOR—HENRY M. PHILLIPS.

ALDERMEN—Ward Two, Andrew Y. Beach; Ward Three, Jacob C. Lutz; Ward Four, George W. Tapley; Ward Five, Henry M. Brewster; Ward Six, Charles A. Call; Ward Seven, George Nye, John S. Sanderson; Ward Eight, Davenport L. Fuller.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Edward C. Rogers; Ward One, Henry L. Whitcomb, John L. Knight, Patrick C. O'Connor; Ward Two, Hosea C. Lombard, James A. Bill, Jr., James N. Dodge; Ward Three, Simpson Clark, George F. Clark, James S. Adams; Ward Four, Edward C. Rogers, Charles L. Long, Thomas D. Lyon; Ward Five, George H. Wells, James Kimball, J. H. Hendrick; Ward Six, Oscar S. Greenleaf; Ward Seven, George W. Hall; Ward Eight, John Rivers.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

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CITY OFFICERS FOR 1885.

MAYOR—HENRY M. PHILLIPS.

ALDERMEN—Ward One, John L. Knight; Ward Two, Andrew Y. Beach; Ward Three, Jacob C. Lutz; Ward Four, Daniel P. Crocker; Ward Five, Charles Taylor; Ward Six, Charles A. Call; Ward Seven, John S. Sanderson; Ward Eight, George W. Miller.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Charles L. Long; Ward One, George E. Frink, James F. Bidwell, Henry M. Castle; Ward Two, James A. Bill, Jr., Hosea C. Lombard, Edwin F. Lyford; Ward Three, Edgar C. Whittemore, Richard D. Whitney, John H. Clune; Ward Four, Henry H. Bowman, Charles L. Long, Alfred N. Mayo; Ward Five, George H. Wells, Joel H. Hendrick, James Kimball; Ward Six, Oscar S. Greenleaf; Ward Seven, Richard W. Pinney; Ward Eight, Horatio E. D. Green.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1886.

MAYOR—EDWIN D. METCALF.

ALDERMEN—President, Andrew Y. Beach; Ward One, James F. Bidwell; Ward Two, Andrew Y. Beach; Ward Three, George B. Holbrook; Ward Four, George W. Tapley; Ward Five, Joel H. Hendrick; Ward Six, Walter H. Wesson; Ward Seven, Richard W. Pinney; Ward Eight, George W. Miller.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Charles L. Long; Ward One, George E. Frink, Charles A. Fisk, R. Hale Smith; Ward Two, James A. Bill, Jr., Edwin F. Lyford, Samuel J. Whyte; Ward Three, John H. Clune, Claudius C. Margerum, William F. Callender; Ward Four, Charles L. Long, Henry H. Bowman, Alfred N. Mayo; Ward Five, Thomas S. Stewart, Edward S. Bradford, Marcus M. Kendall; Ward Six, William L. Dickinson; Ward Seven, George W. Hall; Ward Eight, Horatio E. D. Green.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1887.

MAYOR—E. B. MAYNARD.

ALDERMEN—President, James F. Bidwell; Ward One, James F. Bidwell; Ward Two, Frank M. Bugbee; Ward Three, William F. Callender; Ward Four, William H. Wright; Ward Five, Sherman D. Porter; Ward Six, William L. Dickinson; Ward Seven, Richard W. Pinney; Ward Eight, John Rivers.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, Henry H. Bowman; Ward One, Frederick H. Stebbins, John Dollan, Frank C. Leonard; Ward Two, Frank S. Crane, James A. Bill, Jr., Newrie D. Winter; Ward Three, Claudius C. Margerum, James E. Dunleavy, Howard N. Newell; Ward Four, Henry H. Bowman, William W. More, Charles E. Brown; Ward Five, Edward S. Bradford, Marcus M. Kendall, William C. Newell; Ward Six, Edward J. Flannery; Ward Seven, Landomer E. Pease; Ward Eight, James H. Morley.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

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CITY OFFICERS FOR 1888.

MAYOR—E. B. MAYNARD.

ALDERMEN—President, Frank M. Bugbee; Ward One, John C. McIntosh; Ward Two, Frank M. Bugbee; Ward Three, Lawson Sibley; Ward Four, William H. Wright; Ward Five, Sherman D. Porter; Ward Six, William L. Dickinson; Ward Seven, Richard W. Pinney; Ward Eight, John Rivers.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Newrie D. Winter; Ward One, Frederick H. Stebbins, Frank C. Leonard, George W. Turner; Ward Two, Newrie D. Winter, Charles C. Parkhurst, Edward F. Tower; Ward Three, James E. Dunleavy, Frederick S. Newman, Leonard Schadt; Ward Four, William W. More, Charles E. Brown, George Leonard; Ward Five, Edward S. Bradford, Marcus M. Kendall, James W. Anderson; Ward Six, Edward J. Flannery; Ward Seven, Charles E. Ladd; Ward Eight, E. A. Grise.

CLERK—Tom Fitzgibbon.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1889.

MAYOR—EDWARD S. BRADFORD.

ALDERMEN—President, John C. McIntosh; Ward One, John C. McIntosh; Ward Two, Charles C. Parkhurst; Ward Three, Herbert C. Puffer; Ward Four, John A. Murphy; Ward Five, John McFethries; Ward Six, Henry S. Dickinson; Ward Seven, George W. Hall; Ward Eight, Orson Moulton.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, George Leonard; Ward One, George W. Turner, Leroy Z. Cutler, William F. Ray; Ward Two, Waldo R. Forrester, Francke W. Dickinson, Dr. George E. Foster; Ward Three, Leonard Schadt, Jacob G. Lutz, John P. Casman; Ward Four, William W. More, George Leonard, Charles Van Vlack; Ward Five, Milan W. Bull, Ruel R. Nickerson, Thomas H. Benton; Ward Six, Cornelius W. Phillips; Ward Seven, Charles E. Ladd; Ward Eight, Loren W. King.

CLERK—Andrew O. McGarrett.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1890.

MAYOR—EDWARD S. BRADFORD.

ALDERMEN—President, Henry S. Dickinson; Ward One, George W. Turner; Ward Two, Charles C. Parkhurst; Ward Three, George B. Holbrook; Ward Four, John A. Murphy; Ward Five, Edmund P. Kendrick; Ward Six, Henry S. Dickinson; Ward Seven, George W. Hall; Ward Eight, Orrin E. Tilley.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, George Leonard; Ward One, Leroy Z. Cutler, William F. Ray, Louis C. Hyde, Ward Two, Francke W. Dickinson, George D Fisk, John B. King; Ward Three, John P. Casman, Arthur A. Couch, George J. Seuss; Ward Four, George Leonard, Charles Van Vlack, Frederick H. Gillett; Ward Five, Milan W. Bull, George H. Clark, George H. Kemater; Ward Six, Cornelius W. Phillips; Ward Seven, Benjamin C. Harvey; Ward Eight, Charles E. Jennings.

CLERK—Andrew O. McGarrett.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

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CITY OFFICERS FOR 1891.

MAYOR—EDWARD S. BRADFORD.

ALDERMEN—President, John A. Murphy; Ward One, Louis C. Hyde; Ward Two, Charles C. Parkhurst; Ward Three, George B. Holbrook; Ward Four, John A. Murphy; Ward Five, Edward H. Lathrop; Ward Six, Frederick Harris; Ward Seven, Benjamin C. Harvey; Ward Eight, Orrin E. Tilley.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Francke W. Dickinson; Ward One, Henry E. Marsh, John McDonald, Charles H. Mulligan; Ward Two, Francke W. Dickinson, John B. King, Dwight O. Gilmore; Ward Three, George J. Seuss, Charles W. Turk, Jeremiah F. Mahoney; Ward Four, Charles Van Vlack, W. F. Adams, James D. Norton; Ward Five, Milan W. Bull, George H. Clark, George H. Kemater; Ward Six, George M. Stebbins; Ward Seven, Thomas A. Holland; Ward Eight, Charles E. Jennings.

CLERK—Andrew O. McGarrett.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1892.

MAYOR—LAWSON SIBLEY.

ALDERMEN—President, Frederick Harris; Ward One, Louis C. Hyde; Ward Two, Frank E. Carpenter; Ward Three, Claudius C. Margerum; Ward Four, Charles M. Mather; Ward Five, Samuel D. Sherwood; Ward Six, Frederick Harris; Ward Seven, Benjamin C. Harvey; Ward Eight, Leonard B. Richardson.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, James D. Norton; Ward One, William P. Hayes, Charles H. Mulligan, Henry W. Sexton; Ward Two, Edwin A. Carter, Dwight O. Gilmore, James J. Sullivan; Ward Three, George J. Seuss, Jeremiah F. Mahoney, John Sharrocks; Ward Four, W. F. Adams, James D. Norton, Charles E. Stickney; Ward Five, William M. Gray, William A. Harris, Stillman L. Tuttle; Ward Six, George M. Stebbins; Ward Seven, Thomas A. Holland; Ward Eight, Henry A. Braman.

CLERK—Andrew O. McGarrett. (resigned)—Wm. E. Gilbert.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1893.

MAYOR—EDMUND P. KENDRICK.

ALDERMEN—President, George Nye; Ward One, Olin H. Smith; Ward Two, Dwight O. Gilmore; Ward Three, Claudius C. Margerum; Ward Four, Henry H. Bowman; Ward Five, George Nye; Ward Six, Nathan D. Bill; Ward Seven, Benjamin C. Harvey; Ward Eight, Leonard B. Richardson.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, James D. Norton; Ward One, William P. Hayes, Charles H. Mulligan, Winford N. Caldwell; Ward Two, Walter G. Morse, Charles W. Perkins, George B. Rathbun; Ward Three, Harry P. Elsey, George F. Sessions, Charles Workheiser; Ward Four, W. F. Adams, James D. Norton, Charles E. Stickney; Ward Five, William A. Harris, Edwin S. Field, Frederick B. Miller; Ward Six, Eugene Young; Ward Seven, William H. Gage; Ward Eight, Merrill E. Streeter.

CLERK—William E. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—E. T. Tifft.

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CITY OFFICERS FOR 1894.

MAYOR—EDMUND P. KENDRICK.

ALDERMEN—President, Henry H. Bowman; Ward One, Olin H. Smith; Ward Two, Dwight O. Gilmore; Ward Three, Gustave Remkus; Ward Four, Henry H. Bowman; Ward Five, George A. Russell; Ward Six, Claudius C. Margerum; Ward Seven, Daniel W. Ware; Ward Eight, Merrill E. Streeter.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, George F. Sessions; Ward One, William C. Hayes, Charles L. Burr, George F. Fuller; Ward Two, Maurice P. Cavanaugh, Charles W. Perkins, Frank H. Elwell; Ward Three, Harry P. Elsey, George F. Sessions, Robert A. Grant; Ward Four, Howard A. Gibbs, Robert A. Knight, Paul R. Hawkins; Ward Five, Edwin S. Field, Frederick B. Miller, Fred C. Wright; Ward Six, Edward C. Hamilton; Ward Seven, William S. Bemis; Ward Eight, Philip C. Sullivan.

CLERK—William E. Gilbert.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1895.

MAYOR—CHARLES L. LONG.

ALDERMEN—President, George A. Russell; Ward One, George F. Fuller; Ward Two, Albert E. Foth; Ward Three, Gustave Remkus; Ward Four, Henry L. Gaylord; Ward Five, George A. Russell; Ward Six, Walter P. Goodenough; Ward Seven, Daniel W. Ware; Ward Eight, Merrill E. Streeter.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Robert A. Knight; Ward One, Charles L. Burr, Lewis D. Robinson, Willard F. Tripp; Ward Two, Maurice P. Cavanaugh, Frank H. Elwell, Charles D. Rathbun; Ward Three, Adin W. Bangs, Robert A. Grant, George W. D. Upton; Ward Four, Howard A. Gibbs, Paul R. Hawkins, Robert A. Knight; Ward Five, Albert P. Casey, Augustus A. Howard, Frederick B. Miller; Ward Six, Edward C. Hamilton; Ward seven, Charles E. Ladd; Ward Eight, John R. Reed.

CLERK—William E. Gilbert.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1896.

MAYOR—NEWRIE D. WINTER.

ALDERMEN—President, Henry S. Dickinson; Ward One, Charles L. Burr; Ward Two, Dwight O. Gilmore; Ward Three, George J. Seuss; Ward Four, Henry S. Dickinson; Ward Five, Charles H. Parsons; Ward Six, Charles Rogers; Ward Seven, Charles E. Ladd; Ward Eight, Octave A. La Riviere.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Maurice P. Cavanaugh; Ward One, Frank H. Bills, William J. McCann, Willard F. Tripp; Ward Two, Maurice P. Cavanaugh, Harry C. Collins, Charles T. Winchester; Ward Three, Henry D. Marsh, Frank D. Quilty, George W. D. Upton; Ward Four, Ralph W. Ellis, Zera W. Smith, Fred H. Sturtevant; Ward Five, Frank W. Barker, Augustus A. Howard, Edward R. Lee; Ward Six, Frank D. Kemp; Ward Seven, William W. Bartlett; Ward Eight, Charles O. Churchill.

CLERK—William E. Gilbert.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

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CITY OFFICERS FOR 1897.

MAYOR—HENRY S. DICKINSON.

ALDERMEN—President, Dwight O. Gilmore; Ward One, Willard F. Tripp; Ward Two, Charles H. Mulligan; Ward Three, Dwight O. Gilmore; Ward Four, Ralph W. Ellis; Ward Five, Charles C. Lewis; Ward Six, Edward C. Hamilton; Ward Seven, Charles E. Brown; Ward Eight, Homer D. Packard.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Frank W. Barker; Ward One, Orville A. Dodge, Lewis D. Robinson; Ward Two, Luke J. Coogan, Henry D. Shaw, Harry J. Vesper; Ward Three, Charles H. Dunham, Frank H. Elwell; Ward Four, Lewis F. Carr, Charles E. Newell; Ward Five, Frank W. Barker, Stanford L. Haynes; Ward Six, Fred A. Bearse, Dennis Casey, Jr.; Ward Seven, George A. Bacon, William W. Bartlett; Ward Eight, Charles O. Churchill, Alexander C. Methven, Fordis C. Parker.

CLERK—William E. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1898.

MAYOR—HENRY S. DICKINSON.

ALDERMEN—President, Dwight O. Gilmore; Ward One, Lewis D. Robinson; Ward Two, Charles H. Mulligan; Ward Three, Dwight O. Gilmore; Ward Four, Ralph W. Ellis; Ward Five, Charles C. Lewis; Ward Six, Edward C. Hamilton; Ward Seven, Charles E. Brown; Ward Eight, Homer D. Packard.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Fordis C. Parker; Ward One, Orville A. Dodge, Franklin A. Latimer, Jr.; Ward Two, Luke J. Coogan, Matthew R. Mansfield, William A. Strange; Ward Three, Edward T. Davis, Harry H. Parkhurst; Ward Four, Lewis F. Carr, Charles E. Newell; Ward Five, Fordis C. Parker, Stanford L. Haynes; Ward Six, Fred A. Bearse, Samuel M. Jones; Ward Seven, George A. Bacon, Seth J. Buckland; Ward Eight, Albert E. W. Drake, Alexander C. Methven, William F. Mundell.

CLERK—William E. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1899.

MAYOR—DWIGHT O. GILMORE.

ALDERMEN—President, Charles H. Mulligan; Ward One, Franklin A. Latimer, Jr.; Ward Two, Charles H. Mulligan; Ward Three, Frank H. Elwell; Ward Four, Edwin A. Blodgett; Ward Five, Fordis C. Parker; Ward Six, Fred. A. Bearse; Ward Seven, Julius F. Carman; Ward Eight, Alexander C. Methven.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Fred O. Clapp; Ward One, Fred O. Clapp, Edwin B. Woodin; Ward Two, Luke J. Coogan, Patrick J. McCarty, Patrick J. Mitchell; Ward Three, Gottlieb Baer, George W. D. Upton; Ward Four, Lincoln C. Haynes, William W. Tapley; Ward Five, Theodore F. Dwight, Charles A. Wright; Ward Six, Frederick S. Ladd, George Smith; Ward Seven, Albert G. Bennett, Jr., Seth J. Buckland; Ward Eight, Albert E. W. Drake, William F. Mundell, Woodward E. Murkland.

CLERK—William E. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

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CITY OFFICERS FOR 1900.

MAYOR—WILLIAM P. HAYES.

ALDERMEN—President, Edwin A. Blodgett; Ward One, Fred O. Clapp; Ward Two, Henry W. Fitch; Ward Three, Frank H. Elwell; Ward Four, Edwin A. Blodgett; Ward Five, Fordis C. Parker; Ward Six, Fred A. Bearse; Ward Seven, Julius F. Carman; Ward Eight, Alexander C. Methven.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Albert G. Bennett, Jr.; Ward One, Clifford P. Kibbe, William E. Sanderson; Ward Two, Patrick J. Mitchell, James E. Dunn, John M. Sullivan; Ward Three, George W. D. Upton, Napoleon L. Byron; Ward Four, William W. Tapley, F. Winthrop Edwards; Ward Five, Theodore F. Dwight, George Nye, Jr.; Ward Six, George Smith, Eugene M. Tinkham; Ward Seven, Albert G. Bennett, Jr., William A. Newton; Ward Eight, William F. Mundell, Oliver E. Hines, Everett E. Stone.

CLERK—William E. Gilbert (resigned), H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1901.

MAYOR—WILLIAM P. HAYES.

ALDERMEN—President, Fred O. Clapp; Ward One, Fred O. Clapp; Ward Two, Henry W. Fitch; Ward Three, Henry D. Marsh; Ward Four, William W. Tapley; Ward Five, Henry H. Bosworth; Ward Six, Frank D. Kemp; Ward Seven, Albert G. Bennett, Jr.; Ward Eight, Edward J. Murphy.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Everett E. Stone; Ward One, Clifford P. Kibbe, William E. Sanderson; Ward Two, Patrick J. Mitchell, James E. Dunn, Patrick J. Delaney; Ward Three, George H. McClean, William W. Warren; Ward Four, F. Winthrop Edwards, Henry P. Norris; Ward 5, Calvin S. Whitcomb, George Nye, Jr.; Ward Six, John J. Hamilton, Eugene M. Tinkham; Ward Seven, Henry G. Chapin, William A. Newton; Ward 8, Oliver E. Hines, Everett E. Stone, William T. Webster.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1902.

MAYOR—RALPH W. ELLIS.

ALDERMEN—President, Fred O. Clapp; Ward One, Fred O. Clapp; Ward Two, Henry W. Fitch; Ward Three, Napoleon L. Byron; Ward Four, William W. Tapley; Ward Five, Henry H. Bosworth; Ward Six, Paul R. Hawkins; Ward Seven, Albert G. Bennett, Jr.; Ward Eight, Everett E. Stone.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, William E. Sanderson; Ward One, Clifford P. Kibbe, William E. Sanderson; Ward Two, Sylvester P. Callanan, Patrick J. Delaney, James E. Dunn; Ward Three, Charles F. Bogardus, George H. McClean; Ward Four, Henry P. Norris, Alfred F. H. Pillsbury; Ward Five, George Nye, Jr., Calvin S. Whitcomb; Ward Six, Joseph C. Allen, John J. Hamilton; Ward Seven, Henry G. Chapin, Edward O. Doten; Ward Eight, Henry S. Keyes, Charles S. Potter, William T. Webster.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

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CITY OFFICERS FOR 1903.

MAYOR—EVERETT E. STONE.

ALDERMEN—President, Napoleon L. Byron; Ward One, William E. Sanderson; Ward Two, Willis A. Ford; Ward Three, Napoleon L. Byron; Ward Four, Henry P. Norris; Ward Five, Francke W. Dickinson; Ward Six, Joseph C. Allen; Ward Seven, Oscar S. Greenleaf; Ward Eight, Oliver E. Hines.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Henry G. Chapin; Ward One, William C. Bartlett, Wayland V. James; Ward Two, Patrick J. Delaney, Thomas J. Burke, William H. Grady; Ward Three, George V. Lovely, Samuel H. Trask; Ward Four, Alfred F. H. Pillsbury, Arthur H. Rogers; Ward Five, William A. Dodge, Fred L. Safford; Ward Six, Clinton Gowdy, Albert R. Green; Ward Seven, Albert W. Allen, Henry G. Chapin; Ward Eight, Henry S. Keyes, Charles S. Potter, Edward P. Blague.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1904.

MAYOR—EVERETT E. STONE.

ALDERMEN—President, Napoleon L. Byron; Ward One, William E. Sanderson; Ward Two, Willis A. Ford; Ward Three, Napoleon L. Byron; Ward Four, Henry P. Norris; Ward Five, Francke W. Dickinson; Ward Six, Frederick S. Ladd; Ward Seven, Oscar S. Greenleaf; Ward Eight, William R. Sessions.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Henry G. Chapin; Ward One, William C. Bartlett, Henry N. Bowman; Ward Two, Thomas J. Burke, William H. Grady, William F. Houlihan; Ward Three, George H. Hadd, Samuel H. Trask; Ward Four, Alfred F. H. Pillsbury, Arthur H. Rogers; Ward Five, William A. Dodge, Fred L. Safford; Ward Six, Albert R. Green, Frank E. Stacy; Ward Seven, Albert W. Allen, Henry G. Chapin; Ward Eight, Henry S. Keyes, Charles S. Potter, Howard O. Buck.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1905.

MAYOR—FRANCKE W. DICKINSON.

ALDERMEN—President, William E. Sanderson; Ward One, William E. Sanderson; Ward Two, Willis A. Ford; Ward Three, William S. Warriner; Ward Four, Henry P. Norris; Ward Five, Joseph P. Falt; Ward Six, Frederick S. Ladd; Ward Seven, Albert W. Allen; Ward Eight, William R. Sessions.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Charles S. Potter; Ward One, Charles Adams, Henry N. Bowman; Ward Two, William F. Houlihan, William H. Grady, Michael J. Scully; Ward Three, George H. Hadd, George H. Crouss; Ward Four, Alfred F. H. Pillsbury, Arthur H. Rogers; Ward Five, William A. Dodge, Winthrop I. Davis; Ward Six, Frank E. Stacy, Henry R. Morrissey; Ward Seven, Fred R. Brown, Edwin G. Remkus; Ward Eight, Charles S. Potter, Howard O. Buck, Ralph Waldo Wight.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

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